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# DR. FRANKLIN,

London Published by J. M. DODS.

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THE  
LIFE AND ESSAYS  
OF  
DR. BENJAMIN FRANKLIN.

CAREFULLY COLLECTED  
FROM HIS OWN PAPERS,

CONTAINING  
ALL HIS MISCELLANEOUS PIECES.

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LONDON :  
PRINTED BY JOHN M'GOWAN,  
16, GREAT WINDMILL STREET, HAYMARKET.

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1838.



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1838

## PREFACE.

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THE volume which is here presented to the Public, consists of two parts: the Life of Dr. Franklin. and a Collection of Miscellaneous Essays, the work of that author.

It is already known to many, that Dr. Franklin amused himself, towards the close of his life, with writing memoirs of his own history. These memoirs were brought down to the year 1757. Together with some other manuscripts they were left behind him at his death, and were considered as constituting a part of his posthumous property.

The style of these memoirs is uncommonly pleasing. The story is told with the most unreserved sincerity, and without any false colouring or ornament. We see, in every page, that the author examined his subject with the eye of a master, and related no incidents, the spring and origin of which he did not perfectly understand. It is this that gives such exquisite and uncommon perspicuity to the detail, and delight in the review.

The Essays which are now, for the first time, brought together from various resources, will be found to be more miscellaneous than any of Dr. Franklin's that have formerly been collected, and will therefore be more generally amusing. Dr. Franklin tells us, in his life, that he was an assiduous imitator of Addison, and from some of these papers it will be admitted that he was not an unhappy one. The public will be amused with following a great philosopher in his relaxations, and observing in what respects

## PREFACE.

philosophy tends to elucidate and improve the most common subjects.

It would be superfluous to pronounce an eulogium on the character of this great man;—or to attempt giving further proof of the extent of his genius and the benevolence of his heart than can be found in the excellent history of his life; with two excellent letters, one from Mr. Thomas Jefferson to the late Dr. William Smith of Philadelphia, the other from the late Dr. R. Price, and with two or three well authenticated anecdotes we shall beg leave to introduce the volume to our readers.

“ I feel both the wish and the duty to communicate, in compliance with your request, whatever, within my knowledge, might render justice to the memory of our great countryman, Dr. Franklin, in whom Philosophy has to deplore one of its principal luminaries extinguished. But my opportunities of knowing the interesting facts of his life, have not been equal to my desire of making them known.

“ I can only, therefore, testify in general, that there appeared to me more respect and veneration attached to the character of Dr. Franklin in France, than to that of any other person in the same country, foreign or native. I had opportunities of knowing particularly, how far these sentiments were felt by the foreign ambassadors and ministers at the court of Versailles. The fable of his capture by the Algerines, propagated by the English newspapers, excited no uneasiness, as it was seen at once to be a dish cooked up to please certain readers; but nothing could exceed the anxiety of his diplomatic brethren on a subsequent report of his death, which, although premature, bore some marks of authenticity.

“ I found the ministers of France equally impressed with his talents and integrity. The count de Vergennes, particularly, gave me repeated and unequivocal demonstrations of his entire confidence in him.

“ When he left Passy, it seemed as if the village had lost its patriarch. On taking leave of the court, which he did by letter, the king ordered him to be handsomely complimented, and furnished him with a litter and mules of his own, the only kind of conveyance the state of his health could bear.

“ The succession to Dr. Franklin, at the court of France, was an excellent school of humility to me. On being presented to any one, as the minister of America, the common-place question was, ‘ *C'est vous Monsieur, qui remplacez le Docteur Franklin?* ’—is it, you sir, who replace Dr. Franklin? I generally answered—‘ No one can replace him, sir; I am only his successor.’

“ I could here relate a number of those *bon mots*, with which he was used to charm every society, as having heard many of them: but these are not your object. Particulars of greater dignity happened not to occur, during his stay of nine months after my arrival in France.

“ A little before that time, Argand had invented his celebrated lamp, in which the flame is spread into a hollow cylinder, and thus brought in contact with the air within as well as without. Dr. Franklin had been on the point of the same discovery. The idea had occurred to him; but he had tried a bullrush as a wick, which did not succeed. His occupations did not permit him to repeat and extend his trials to the introduction of a larger column of air, than could pass through the stem of a bullrush.

## PREFACE.

"About that time also, the king of France gave him a signal testimony of respect, by joining him with some of the most illustrious men of the nation, to examine that ignis-satuus of philosophy, the animal magnetism of the manœ Mésmer; the pretended effects of which had astonished all Paris. From Dr. Franklin's hand in conjunction with his brethren of the learned committee, that compound of fraud and folly was unveiled, and received its death-wound. After this nothing very interesting was before the public, either in philosophy or politics, during his stay; and he was principally occupied in winding up his affairs, and preparing for his return to America.

"These small offerings to the memory of our great and dear friend, (whom time will be making still greater, while it is spurning us from its records) must be accepted by you, Sir, in that spirit of love and veneration for him, in which they are made; and not according to their insignificance in the eyes of the world, which did not want this mite to fill up the measure of his worth.

"His death was an affliction which was to happen to us at some time or other. We have reason to be thankful he was so long spared; that the most useful life should be the longest also; that it was protracted so far beyond the ordinary span allotted to humanity, as to avail us of his wisdom and virtue, in the establishment of our freedom in the west; and to bless him with a view of its dawn in the east, where men seemed till now to have learned every thing—but how to be free."

The Doctor, in early life, was economical from principle; in his latter days perhaps from habit. "Poor Richard" held the purse strings of the president of Philadelphia; yet the following anecdote, related by Dr. Underhill, will

## PREFACE.

prove the goodness of his heart, as well as the generosity of his disposition. Soon after I was introduced, writes the Doctor, an airy thoughtless relation of Dr. Franklin's, from New England state, entered the room. It seems he was on a party of pleasure; and had been so much involved in it, for three weeks, as not to have paid his respects to his venerable relative. The purport of his present visit was to solicit the loan of a small sum of money, to enable him to pay his bills, and transport himself home. He preluded his request with a detail of embarrassments which might have befallen the most circumspect. The Doctor inquiring how much was the sum, he replied, with some hesitation, fifty dollars. Franklin went to his escritoir, and counted out a hundred. He received them with many promises of punctual payment, and hastily took up a pen to draw a note of hand for the cash. The Doctor, who perceived the nature of the borrower's embarrassment better than he was aware, and prepossessed with the improbability of ever recovering his cash, again stepped across the room, and laying his hand gently upon his cousin's arm, said, "Stop cousin, we will save the paper; a quarter of a sheet is not of great value, but it is worth saving;" conveying at once a liberal gift and gentle reprimand for the borrower's prevarication and extravagance.

The death of Dr. Franklin caused a vacancy in society which will not easily be occupied. By it mankind lost a benefactor, humanity a friend, and philosophy its brightest ornament. The celebrated Dr. Richard Price thus writes to a gentleman of Philadelphia upon the subject of Franklin's memoirs of himself.

"I am hardly able to tell you how kindly I take the letters with which you favour me. Your last containing

## PREFACE.

philosophy tends to elucidate and improve the most common subjects.

It would be superfluous to pronounce any eulogium on the character of this great man;—or to attempt giving further proof of the extent of his genius and the benevolence of his heart, than can be found in the excellent history of his life; with two excellent letters, one from Mr. Thomas Jefferson, to the late Dr. William Smith, of Philadelphia, the other from the late Dr. R. Price, and with two or three well authenticated anecdotes we shall beg leave to introduce the volume to our readers.

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THE  
LIFE  
OR  
*Dr. Benjamin Franklin.*

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MY DEAR SON,

I HAVE amused myself with collecting some little anecdotes of my family. You may remember the enquiries I made, when you were with me in England, among such of my relations as were then living; and the journey I undertook for that purpose. To be acquainted with the particulars of my parentage and life, many of which are unknown to you, I flatter myself will afford the same pleasure to you as to me. I shall relate them upon paper: it will be an agreeable employment of a week's uninterrupted leisure, which I promise myself during my present retirement in the country. There are also other motives which induce me to the undertaking. From the bosom of poverty and obscurity, in which I drew my first breath, and spent my earliest years, I have raised myself to a state of opulence, and to some degree of celebrity in the world. A constant good fortune has attended me through every period of my life to my present advanced age; and my descendants may be desirous of learning what were the means of which I made use, and which, thanks to the assisting hand of Providence, have proved so eminently

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successful. They may also, should they ever be placed in a similar situation, derive some advantage from my narrative.

When I reflect, as I frequently do, upon the felicity I have enjoyed, I sometimes say to myself, that, were the offer made me I would engage to run again, from beginning to end, the same career of life. All I would ask, should be the privilege of an author, to correct, in a second edition, certain errors of the first. I could wish likewise, if it were in my power, to change some trivial incidents and events for others more favourable. Were this, however, denied me, still would I not decline the offer. But since a repetition of life cannot take place, there is nothing which, in my opinion, so nearly resembles it, as to call to mind all its circumstances, and, to render their remembrance more durable, commit them to writing. By thus employing myself, I shall yield to the inclination, so natural in old men, to talk of themselves and their exploits, and may freely follow my bent, without being tiresome to those who, from respect to my age, might think themselves obliged to listen to me; as they will be at liberty to read me or not as they please. In fine—and I may as well avow it, since nobody would believe me were I to deny it—I shall, perhaps, by this employment, gratify my vanity. Scarcely indeed have I ever read or heard the introductory phrase, “I may say, without vanity,” but some striking and characteristic instance of vanity has immediately followed. The generality of men hate vanity in others, however strongly they may be tinctured with it themselves: for myself, I pay obeisance to it wherever I meet with it, persuaded that it is advantageous, as well to the individual whom it governs, as to those who are within the sphere of its influence. Of consequence, it would, in many cases, not be wholly absurd, that a man should count his vanity among the other sweets of life, and give thanks to Providence for the blessing.

And here let me with all humility acknowledge, that to divine Providence I am indebted for the felicity I have hitherto enjoyed. It is that power alone which has furnished me with the means I have employed; and that has crowned them with success. My faith in this respect leads me to hope, though I cannot count upon it, that the divine goodness will still be exercised towards me, either by prolonging the duration of my happiness to the close of life, or by giving me fortitude to support any melancholy reverse, which may happen to me, as to so many others. My future fortune is unknown but to Him in whose hands is our destiny; and who can make our very afflictions subservient to our benefit.

One of my uncles, desirous, like myself, of collecting anecdotes of our family, gave me some notes, from which I have derived many particulars respecting our ancestors. From these I learn, that they had lived in the same village (Eaton, in Northamptonshire) upon a freehold of about thirty acres, for the space at least of three hundred years. How long they had resided there prior to that period, my uncle had been unable to discover; probably ever since the institution of surnames, when they took the appellation of Franklin, which had formerly been the name of a particular order of individuals.\*

This petty estate would not have sufficed for their subsistence, had they not added the trade of blacksmith, which was perpetuated in the family down to my uncle's time, the

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\* *Franklin* was antiently the common name of an order or rank in England, and is thus amiably characterized by Chaucer:

This worthy Franklin bore a purse of silk,  
Fix'd to his girdle, white as morning milk;  
Knight of the shire, first justice at th' assize,  
To help the poor, the doubtful to advise.  
In all employments, generous, just; he prov'd,  
Renow'd for courtesy, by all belov'd.

eldest son having been uniformly brought up to this em ployment : a custom which both he and my father observed with respect to their eldest sons.

In the researches I made at Eaton, I found no account of their births, marriages, and deaths, earlier than the year 1555 ; the parish register not extending farther back than that period. This register informed me, that I was the youngest son of the youngest branch of the family, counting five generations. My grand-father, Thomas, who was born in 1598, lived at Eaton till he was too old to continue his trade, when he retired to Banbury, in Oxfordshire, where his son John, who was a dyer, resided, and with whom my father was apprenticed. He died, and was buried there. we saw his monument in 1758. His eldest son lived in the family house at Eaton, which he bequeathed, with the land belonging to it, to his only daughter : who, in concert with her husband, Mr. Fisher, of Wellingborough, afterwards sold it to Mr. Esteal, the present proprietor.

My grandfather had four surviving sons, Thomas, John, Benjamin, and Josias. I shall give you such particulars of them as my memory will furnish, not having my papers here, in which you will find a more minute account, if they are not lost during my absence.

Thomas had learned the trade of a blacksmith under his father ; but possessing a good natural understanding, he improved it by study, at the solicitation of a gentleman of the name of Palmer, who was at that time the principal inhabitant of the village, and who encouraged, in like manner, all my uncles to cultivate their minds. Thomas thus rendered himself competent to the functions of a country attorney ; soon became an essential personage in the af-fairs of the village ; and was one of the chief movers of every public enterprise, as well relative to the county as the town of Northampton. A variety of remarkable incidents were told us of him at Eaton. After enjoying the esteem and patronage of Lord Halifax, he died

January 6, 1702, precisely four years before I was born. The recital that was made us of his life and character, by some aged persons of the village, struck you, I remember, as extraordinary, from its analogy to what you knew of myself. "Had he died," said you, "just four years later, one might have supposed a transmigration of souls."

John, to the best of my belief, was brought up to the trade of a wool-dyer.

Benjamin served his apprenticeship in London, to a silk-dyer. He was an industrious man: I remember him well, for, while I was a child, he joined my father at Boston, and lived for some years in the house with us. A particular affection had always subsisted between my father and him, and I was his godson. He arrived to a great age. He left behind him two quarto volumes of poems in manuscript, consisting of little fugitive pieces addressed to his friends. He had invented a short-hand, which he taught me; but having never made use of it, I have now forgotten it. He was a man of piety, and a constant attendant on the best preachers, whose sermons he took a pleasure in writing down according to the expeditory method he had devised. Many volumes were thus collected by him. He was also extremely fond of politics, too much so, perhaps, for his situation. I lately found in London a collection which he had made of all the principal pamphlets relative to public affairs, from the year 1641 to 1717. Many volumes are wanting, as appears by the series of numbers; but there still remain eight in folio, and twenty-four in quarto and octavo. The collection had fallen into the hands of a second-hand bookseller, who, knowing me by having sold me some books, brought it to me. My uncle, it seems had left it behind him on his departure for America, about fifty years ago. I found various notes of his writing in the margins. His grandson, Samuel, is now living at Boston.

Our humble family had early embraced the Reformation. They remained faithfully attached during the reign

of Queen Mary, when they were in danger of being molested on account of their zeal against popery. They had an English bible, and, to conceal it the more securely, they conceived the project of fastening it, open, with pack threads across the eaves, on the inside of the lid of the close-stool. When my great-grandfather wished to read to his family, he reversed the lid of the close stool upon his knees, and passed the leaves from one side to the other, which were held down on each by the pack-thread. One of the children was stationed at the door, to give notice if he saw the proctor (an officer of the spiritual court) make his appearance: in that case, the lid was restored to its place, with the bible concealed under it as before. I had this anecdote from my uncle Benjamin.

The whole family preserved its attachment to the Church of England till towards the close of the reign of Charles II, when certain ministers, who had been ejected as non-conformists, having held conventicles in Northamptonshire, they were joined by Benjamin and Josias, who adhered to them ever after. The rest of the family continued in the episcopal church.

My father Josias, married early in life. He went with his wife and three children, to New England, about the year 1682. Conventicles being at that time prohibited by law, and frequently disturbed, some considerable persons of his acquaintance determined to go to America, where they hoped to enjoy the free exercise of their religion, and my father was prevailed on to accompany them.

My father had also, by the same wife, four children born in America, and ten others by a second wife, making in all seventeen. I remember to have seen thirteen seated together at his table, who all arrived to years of maturity, and were married. I was the last of the sons, and the youngest child, excepting two daughters. I was born at Boston, in New England. My mother, the second

wife, was Abigail Folger, daughter of Peter Folger, one of the first colonists of New England, of whom Cotton Mather makes honourable mention, in his Ecclesiastical History of that province, as "a pious and learned Englishman," if I rightly recollect his expressions, I have been told of his having written a variety of little pieces; but there appears to be only one in print, which I met with many years ago. It was published in the year 1675, and is in familiar verse agreeably to the taste of the times and the country. The author addresses himself to the governors for the time being, speaks for liberty of conscience, and in favour of the anabaptists, quakers and other sectaries, who had suffered persecution. To this persecution he attributes the war with the natives, and other calamities which afflicted the country, regarding them as the judgments of God in punishment of so odious an offence, and he exhorts the government to the repeal of laws so contrary to charity. The poem appeared to be written with a manly freedom and a pleasing simplicity. I recollect the six concluding lines, though I have forgotten the order of words of the two first; the sense of which was, that his censures were dictated by benevolence, and that, of consequence, he wished to be known as the author; because, said he, I hate from my very soul dissimulation.

From Sherburn,<sup>\*</sup> where I dwell,  
I therefore put my name,  
Your friend, who means you well,

PETER FOLGER.

My brothers were all put apprentices to different trades. With respect to myself, I was sent, at the age of eight years, to a grammar-school. My father destined me for the church, and already regarded me as the chaplain of

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\* Town in the island of Nantucket.

the family. The promptitude with which from my infancy I had learned to read, for I do not remember to have been ever without this acquirement, and the encouragement of his friends who assured him, that I should one day certainly become a man of letters, confirmed him in this design. My uncle Benjamin approved also of the scheme, and promised to give me all his volumes of sermons written, as I have said in the short-hand of his invention, if I would take the pains to learn it.

I remained, however, scarcely a year at the grammar-school, although, in this short interval, I had risen from the middle to the head of my class, from thence to the class immediately above, and was to pass, at the end of the year to the one next in order. But my father, burdened with a numerous family, found that he was incapable, without subjecting himself to difficulties, of providing for the expences of a collegiate education; and considering besides, as I heard him say to his friends, that persons so educated were often poorly provided for, he renounced his first intentions, took me from the grammar-school, and sent me to a school for writing and arithmetic, kept by a Mr. George Brownwell, who was a skilful master, and succeeded very well in his profession by employing gentle means only, and such as were calculated to encourage his scholars. Under him I soon acquired an excellent hand; but I failed in arithmetic, and made therein no sort of progress.

At ten years of age, I was called home to assist my father in his occupation, which was that of a soap-boiler and tallow-chandler; a business to which he had served no apprenticeship, but which he embraced on his arrival at New England, because he found his own, that of dyer, in too little request to enable him to maintain his family, I was accordingly employed in cutting the wicks, filling the moulds, taking care of the shop, carrying messages, &c.

This business displeased me, and I felt a strong inclination for a sea life; but my father set his face against it.

## LIFE OF DR. FRANKLIN.

Ω

The vicinity of the water, however, gave me frequent opportunities of venturing myself both upon and within it, and I soon acquired the art of swimming, and of managing a boat. When embarked with other children, the helm was commonly deputed to me, particularly on difficult occasions; and, in every other project, I was almost always the leader of the troop, whom I sometimes involved in embarrassments. I shall give an instance of this, which demonstrates an early disposition of mind for public enterprises, though the one in question was not conducted by justice.

The mill-pond was terminated on one side by a marsh, upon the borders of which we were accustomed to take our stand, at high water, to angle for small fish. By dint of walking, we had converted the place into a perfect quagmire. My proposal was to erect a wharf that should afford us firm footing; and I pointed out to my companions a large heap of stones, intended for the building a new house near the marsh, and which were well adapted for our purpose. Accordingly, when the workmen retired in the evening, I assembled a number of my playfellows, and by labouring diligently, like ants, sometimes four of us uniting our strength to carry a single stone, we removed them all, and constructed our little quay. The workmen were surprised the next morning at not finding their stones; which had been conveyed to our wharf. Inquiries were made respecting the authors of this conveyance; we were discovered; complaints were exhibited against us; and many of us underwent correction on the part of our parents; and though I strenuously defended the utility of the work, my father at length convinced me, that nothing which was not strictly honest could be useful.

It will not, perhaps, be uninteresting to you to know what sort of man my father was. He had an excellent constitution, was of a middle size, but well made and strong, and extremely active in whatever he undertook. He designed with a degree of neatness, and knew a little of

music. His voice was sonorous and agreeable; so that when he sung a psalm or hymn, with the accompaniment of his violin, as was his frequent practice in an evening, when the labours of the day were finished, it was truly delightful to hear him. He was versed also in mechanics, and could, upon occasion, use the tools of a variety of trades. But his greatest excellence was a sound understanding and solid judgement, in matters of prudence, both in public and private life. In the former, indeed, he never engaged, because his numerous family, and the mediocrity of his fortune, kept him unremittingly employed in the duties of his profession. But I well remember, that the leading men of the place used frequently to come and ask his advice respecting the affairs of the town, or of the church to which he belonged, and that they paid much deference to his opinion. Individuals were also in the habit of consulting him in their private affairs, and he was often chosen arbiter between contending parties.

He was fond of having at his table; as often as possible, some friends or well-informed neighbours, capable of rational conversation, and he was always careful to introduce useful or ingenious topics of discourse, which might tend to form the minds of his children. By this means he early attracted our attention to what was just, prudent, and beneficial in the conduct of life. He never talked of the meats which appeared upon the table, never discussed whether they were well or ill dressed, of a good or bad flavour, high-seasoned or otherwise, preferable or inferior to this or that dish of a similar kind. Thus accustomed, from my infancy, to the utmost inattention as to these objects, I have been perfectly regardless of what kind of food was before me; and I pay so little attention to it even now, that it would be a hard matter for me to recollect, a few hours after I had dined, of what my dinner had consisted. When travelling, I have particularly experienced the advantage of this habit; for it has often happened to me to be in company with persons, who, having a more delicate, because a more exercised

taste have suffered in many cases considerable inconvenience ; while as to myself, I have had nothing to desire.

My mother was likewise possessed of an excellent constitution. She suckled all her ten children, and I never heard either her or my father complain of any other disorder than that of which they died : my father at the age of eighty-seven, and my mother at eighty-five. They are buried together at Boston, where, a few years ago, I placed a marble over their grave, with this inscription :

"Here lie

" JORIAS FRANKLIN, and ABIAH, his wife : they lived  
" together with reciprocal affection for fifty-nine years ; and  
" without private fortune, without lucrative employment, by  
" assiduous labour and honest industry, decently supported  
" a numerous family, and educated, with success, thirteen  
" children and seven grand children. Let this example,  
" reader, encourage thee diligently to discharge the duties  
" of thy calling, and to rely on the support of divine Pro-  
" vidence.

" He was pious and prudent,

" She discreet and virtuous.

" Their youngest son, from a sentiment of filial duty,

" consecrates this stone,

" to their memory."

I perceive, by my rambling digressions, that I am growing old. But we do not dress for a private company as for a formal ball. This deserves, perhaps, the name of negligence.

To return. I thus continued employed in my father's trade for the space of two years ; that is to say, till I arrived at twelve years of age. About this time, my brother John, who had served his apprenticeship in London, having quitted my father, and being married and settled in business on his own account at Rhode Island, I was destined, to all appearance, to supply his place, and be a can-

dle-maker all my life: but my dislike of this occupation continuing, my father was apprehensive, that, if a more agreeable one were not offered me, I might play the truant and escape to sea; as, to his extreme mortification, my brother Josias had done. He therefore took me sometimes to see masons, coopers, braziers, joiners, and other mechanics, employed at their work, in order to discover the bent of my inclination, and fix it if he could upon some occupation that might retain me on shore. I have since, in consequence of these visits, derived no small pleasure from seeing skilful workmen handle their tools; and it has proved of considerable benefit to have acquired thereby sufficient knowledge, to be able to make little things for myself, when I have had no mechanic at hand, and to construct small machines for my experiments, while the idea I have conceived has been fresh and strongly impressed on my imagination.

My father at length decided that I should be a cutler, and I was placed for some days upon trial with my cousin Samuel, son of my uncle Benjamin who had learned this trade in London, and had established himself at Boston. But the premium he required for my apprenticeship displeasing my father, I was recalled home.

From my earliest years I had been passionately fond of reading, and I laid out in books all the money I could procure. I was particularly pleased with accounts of voyages. My first acquisition was Bunyan's works, in small separate volumes. These I afterwards sold in order to buy an historical collection by R. Burton, which consisted of small cheap volumes, amounting in all to about forty or fifty. My father's little library was principally made up of books of practical and polemical theology. I read the greatest part of them. I have since often regretted that, at a time when I had so great a thirst for knowledge, more eligible books had not fallen into my hands, as it was then a point decided that I should not be educated for the church. There was

also among my father's books, Plutarch's Lives, in which I read continually, and I still regard as advantageously employed the time devoted to them. I found besides a work of De Foe's, intitled an Essay on Projects, from which, perhaps, I derived impressions that have since influenced some of the principal events of my life.

My inclination for books at last determined my father to make me a printer, though he had already a son in that profession. My brother had returned from England in 1717, with a press and types, in order to establish a printing-house at Boston. This business pleased me much better than that of my father, though I had still a predilection for the sea. To prevent the effects which might result from this inclination, my father was impatient to see me engaged with my brother. I held back for some time; at length however, I suffered myself to be persuaded, and signed my indentures, being then only twelve years of age. It was agreed that I should serve as an apprentice to the age or twenty-one, and should receive journeyman's wages only during the last year.

In a very short time I made great proficiency in this business, and became very serviceable to my brother. I had now an opportunity of procuring better books. The acquaintance I necessarily formed with booksellers' apprentices, enabled me to borrow a volume now and then, which I never failed to return punctually and without injury. How often has it happened to me to pass the greater part of the night in reading by my bed-side, when the book had been lent me in the evening, and was to be returned next morning, lest it might be missed or wanted.

At length, Mr. Matthew Adams, an ingenious tradesman, who had a handsome collection of books, and who frequented our printing-house, took notice of me. He invited me to see his library, and had the goodness to lend me any books I was desirous of reading. I then took a strange fancy for poetry, and composed several little pieces.

My brother thinking he might find his account in it, encouraged me, and engaged me to write two ballads: One, called the Light-house Tragedy, contained an account of the shipwreck of captain Worthilake and his two daughters; the other was a sailor's song on the capture of the noted pirate called Teach, or Blackbeard. They were wretched verses in point of style, mere blind-men's ditties. When printed, he dispatched me about the town to sell them. The first had a prodigious run, because the event was recent, and had made a great noise.

My vanity was flattered by this success; but my father checked my exultation, by ridiculing my productions, and telling me that versifiers were always poor. I thus escaped the misfortune of being a very wretched poet. But as the faculty of writing prose has been of great service to me in the course of my life, and principally contributed to my advancement, I shall relate by what means, situated as I was, I acquired the small skill I may possess in that way.

There was in the town another young man, a great lover of books, of the name of John Collins, with whom I was intimately connected. We frequently engaged in dispute, and were indeed so fond of argumentation, that nothing was so agreeable to us as a war of words. This contentious temper, I would observe by the bye, is in danger of becoming a very bad habit; and frequently renders a man's company insupportable, as being no otherwise capable of indulgence than by an indiscriminate contradiction. Independently of the acrimony and discord it introduces into conversation, it is often productive of dislike, and even hatred, between persons to whose friendship is indispensably necessary. I acquired it by reading, while I lived with my father, books of religious controversy. I have since remarked, that men of sense seldom fall into this error: lawyers, fellows of universities, and persons of every profession educated at Edinburgh, excepted.

Collins and I fell one day into an argument, relative to

the education of women; namely, whether it was proper to instruct them in the sciences, and whether they were competent to the study. Collins supported the negative, and affirmed that the task was beyond their capacity. I maintained the opposite opinion, a little perhaps for the pleasure of disputing. He was naturally more eloquent than I; words flowed copiously from his lips; and frequently I thought myself vanquished, more by his volubility, than by the force of his arguments. We separated without coming to an agreement upon this point; and as we were not to see each other again for some time, I committed my thoughts to paper, made a fair copy, and sent it him. He answered, and I replied. Three or four letters had been written by each, when my father chanced to light upon my papers and read them. Without entering into the merits of the cause, he embraced the opportunity of speaking to me upon my manner of writing. He observed, that though I had the advantage of my adversary in correct spelling and pointing, which I owed to my occupation, I was greatly his inferior in elegance of expression, in arrangement, and perspicuity. Of this he convinced me by several examples. I felt the justice of his remarks, became more attentive to language, and resolved to make every effort to improve my style.

Amidst these resolves, an odd volume of the Spectator fell into my hands. This was a publication I had never seen. I bought the volume, and read it again and again, I was enchanted with it, thought the style excellent, and wished it were in my power to imitate it. With this view, I selected some of the papers, made short summaries of the sense of each period, and put them for a few days aside. I then, without looking at the book, endeavoured to restore the essays to their due form, and to express each thought at length, as it was in the original, employing the most appropriate words that occurred to my mind. I afterwards compared my Spectator with the original; I perceived some

faults, which I corrected ; but I found that I wanted a fund of words, if I may so express myself, and a facility of recollecting and employing them, which I thought I should by that time have acquired, had I continued to make verses. The continual need of words of the same meaning, but of different lengths for the measure, or of different sounds for the rhyme, would have obliged me to seek for a variety of synomynes, and have rendered me master of them. From this belief, I took some of the tales of the Spectator, and turned them into verse ; and after a time, when I had sufficiently forgotten them, I again converted them into prose.

Sometimes also I mingled all my summaries together ; and a few weeks after, endeavoured to arrange them in the best order, before I attempted to form the periods and complete the essays. This I did with a view of acquiring method in the arrangement of my thoughts. On comparing afterwards my performance with the original, many faults were apparent, which I corrected ; but I had sometimes the satisfaction to think, that, in certain particulars of little importance, I had been fortunate enough to improve the order of thought or the style : and this encouraged me to hope that I should succeed, in time, in writing decently in the English language, which was one of the great objects of my ambition.

The time which I devoted to these exercises, and to reading, was the evening after my day's labour was finished, the morning before it began, and Sundays when I could escape attending divine service. While I lived with my father, he had insisted on my punctual attendance on public worship, and I still indeed considered it as a duty, but a duty which I thought I had no time to practise.

When about sixteen years of age, a work of Tryon's fell into my hands, in which he recommends vegetable diet. I determined to observe it. My brother being a bachelor, did not keep house, but boarded with his apprentices in a neighbouring family. My refusing to eat animal food was

found inconvenient, and I was often scolded for my singularity. I attended to the mode in which Tryon prepared some of his dishes, particularly how to boil potatoes and rice, and make hasty puddings. I then said to my brother that if he would allow me per week, half what he paid for my board, I would undertake to maintain myself. The offer was instantly embraced, and I soon found that of what he gave me, I was able to save half. This was a new fund for the purchase of books, and other advantages resulted to me from the plan. When my brother and his workmen left the printing-house to go to dinner, I remained behind, and dispatching my frugal meal, which frequently consisted of a biscuit only, or a slice of bread and a bunch of raisins, or a bun from the pastry-cook's, with a glass of water, I had the rest of the time, till their return, for study; and my progress therein was proportioned to that clearness of ideas, and quickness of conception, which are the fruit of temperance in eating and drinking.

It was about this period, that having one day been put to the blush for my ignorance in the art of calculation, which I had twice failed to learn while at school; I took Cocker's Treatise of Arithmetic, and went through it by myself with the utmost ease. I also read a book of navigation by Seller and Sturmy, and made myself master of the little geometry it contains, but I never proceeded far in this science. Nearly at the same time, I read Locke on the Human Understanding, and the Art of Thinking, by Messrs. du Port Royal.

While labouring to form and improve my style, I met with an English Grammar, which I believe was Greenwood's, having at the end of it two little essays on rhetoric and logic. In the latter, I found a model of disputation, after the manner of Socrates. Shortly after, I procured Xenophon's work, intitled Memorable Things of Socrates, in which are various examples of the same method. Charmed to a degree of enthusiasm with this mode of disputing, I

adopted it, and, renouncing blunt contradiction and direct and positive argument, I assumed the character of an humble questioner. The perusal of Shaftsbury and Collins had made me a sceptic: and being previously so as to many doctrines of Christianity, I found Socrates's method to be both safest for myself, as well as the most embarrassing to those against whom I employed it. It soon afforded me singular pleasure: I incessantly practised it: and became very adroit in obtaining, even from persons of superior understanding, concessions of which they did not foresee the consequence. Thus I involved them in difficulties from which they were unable to extricate themselves, and sometimes obtained victories, which neither my cause nor my arguments merited.

This method I continued to employ for some years; but I afterwards abandoned it by degrees, retaining only the habit of expressing myself with modest diffidence, and never making use, when I advanced any proposition which might be controverted, of the words certainly, undoubtedly, or any others that might give the appearance of being obstinately attached to my opinion. I rather said, I imagine, I suppose, or it appears to me, that such a thing is so or so, for such and such reasons; or it is so, if I am not mistaken. This habit has, I think, been of considerable advantage to me, when I have had occasion to impress my opinion on the minds of others, and persuade them to the adoption of the measures I have suggested. And since the chief ends of conversation are, to inform or be informed, to please or to persuade, I could wish that intelligent or well-meaning men would not themselves diminish the power they possess of being useful, by a positive and presumptuous manner of expressing themselves, which scarcely ever fails to disgust the hearer, and is only calculated to excite opposition, and defeat every purpose for which the faculty of speech has been bestowed on man. In short, if you wish to inform, a positive and dogmatical manner of advancing your opi-

nion may provoke contradiction, and prevent your being heard with attention. On the other hand, if, with a desire of being informed, and of benefiting by the knowledge of others, you express yourself as being strongly attached to your own opinions, modest and sensible men, who do not love disputation, will leave you in tranquil possession of your errors. By following such a method, you can rarely hope to please your auditors, conciliate their good-will, or work conviction on those whom you may be desirous of gaining over to your views. Pope judiciously observes,

Men must be taught, as if you taught them not,  
And things unknown propos'd—as things forgot.

And in the same poem, he afterwards advises us  
To speak, though sure, with seeming diffidence.

He might have added to these lines, one that he has coupled elsewhere, in my opinion, with less propriety. It is this :

For want of modesty is want of sense.

If you ask why I say with less propriety, I must give you the two lines together :

Immodest words admit of no defence,  
For want of decency is want of sense.

Now want of sense, when a man has the misfortune to be so circumstanced, is it not a kind of excuse for want of modesty? And would not the verses have been more accurate if they had been constructed thus :

Immodest words admit but this defence,  
That want of decency is want of sense.

But I leave the decision of this to better judges than myself.

In 1720, or 1721, my brother began to print a new public paper. It was the second that made its appearance in America, and was intitled, "The New England Courant." The only one that existed before was the "Boston News

Letter." Some of his friends, I remember, would have dissuaded him from this undertaking, as a thing that was not likely to succeed ; a single newspaper being, in their opinion, sufficient for all America. At present, however, in 1771, there are no less than twenty-five. But he carried his project into execution, and I was employed in distributing the copies to his customers, after having assisted in composing and working them off.

Among his friends he had a number of literary characters, who, as an amusement, wrote short essays for the paper, which gave it reputation and increased the sale. These gentlemen frequently came to our house. I heard the conversation that passed, and the accounts they gave of the favourable reception of their writings with the public. I was tempted to try my hand among them ; but, being still a child as it were, I was fearful that my brother might be unwilling to print in his paper any performance of which he should know me to be the author. I therefore contrived to disguise my hand, and having written an anonymous piece, I placed it at night under the door of the printing-house, where it was found the next morning. My brother communicated it to his friends, when they came as usual to see him ; who read, commented upon it within my hearing, and I had the exquisite pleasure to find that it met with their approbation, and that in the various conjectures they made respecting the author, no one was mentioned who did not enjoy a high reputation in the country for talents and genius. I now supposed myself fortunate in my judges, and began to suspect that they were not such excellent writers as I had hitherto supposed them. Be this as it may, encouraged by this little adventure, I wrote, and sent to press in the same way, many other pieces, which were equally approved : keeping the secret till my slender stock of information and knowledge for such performances was pretty completely exhausted, when I made myself known.

My brother, upon this discovery, began to entertain a little more respect for me ; but he still regarded himself as my master, and treated me as an apprentice. He thought himself entitled to the same services from me, as from any other person. On the contrary, I conceived that, in many instances, he was too rigorous, and that, on the part of a brother, I had a right to expect greater indulgence. Our disputes were frequently brought before my father ; and either my brother was generally wrong, or I was the better pleader of the two, for judgment was commonly given in my favour. But my brother was passionate, and often had recourse to blows—a circumstance which I took in very ill part. This severe and tyrannical treatment contributed, I believe, to imprint on my mind that aversion to arbitrary power, which during my whole life I have ever preserved. My apprenticeship became insupportable to me, and I continually sighed for an opportunity of shortening it, which at length unexpectedly offered.

An article inserted in our paper, upon some political subject which I have now forgotten, gave offence to the assembly. My brother was taken into custody, censured, and ordered into confinement for a month, because, as I presume, he would not discover the author. I was also taken up, and examined before the council ; but though I gave them no satisfaction, they contented themselves with reprimanding, and then dismissed me ; considering me probably as bound, in quality of apprentice, to keep my master's secrets.

The imprisonment of my brother kindled my resentment, notwithstanding our private quarrels. During its continuance, the management of the paper was entrusted to me, and I was bold enough to insert some pasquinades against the governors ; which highly pleased my brother, while others began to look upon me in an unfavourable point of

view, considering me as a young wit inclined to satire and lampoon.

My brother's enlargement was accompanied with an arbitrary order from the house of the assembly, "That James Franklin should no longer print the newspaper intitled 'The New England Courant,'" In this conjuncture, we held a consultation of our friends at the printing-house, in order to determine what was proper to be done. Some proposed to evade the order, by changing the title of the paper: but my brother, foreseeing inconveniences that would result from this step, thought it better that it should be in future printed in the name of Benjamin Franklin; and to avoid the censure of the assembly, who might charge him with still printing the paper himself under the name of his apprentice, it was resolved that my old indentures should be given up to me, with a full and entire discharge written on the back, in order to be produced upon an emergency; but that, to secure to my brother the benefit of my service, I should sign a new contract, which should be kept secret during the remainder of the term. This was a very shafloow arrangement. It was, however, carried into immediate execution; and the paper continued, in consequence, to make its appearance for some months in my name. At length, a new difference arising between my brother and me, I ventured to take advantage of my liberty, presuming that he would not dare to produce the new contract. It was undoubtedly dishonourable to avail myself of this circumstance, and I reckon this action as one of the first errors of my life; but I was little capable of estimating it at its true value, embittered as my mind had been by the recollection of the blows I had received. Exclusively of his passionate treatment of me, my brother was by no means a man of an ill temper, and perhaps my manners had too much impertinence not to afford it a very natural pretext.

When he knew that it was my determination to quit him, he wished to prevent my finding employment elsewhere

He went to all the printing-houses in the town, and prejudiced the masters against me—who accordingly refused to employ me. The idea then suggested itself to me of going to New York, the nearest town in which there was a printing office. Farther reflection confirmed me in the design of leaving Boston, where I had already rendered myself an object of suspicion to the governing party. It was probable, from the arbitrary proceedings of the assembly in the affair of my brother, that, by remaining, I should soon have been exposed to difficulties, which I had the greater reason to apprehend, as, from my indiscreet disputes upon the subject of religion, I began to be regarded by pious souls with horror, either as an apostate or an atheist. I came, therefore, to a resolution: but my father, in this instance siding with my brother, I presumed that, if I attempted to depart openly, measures would be taken to prevent me. My friend Collins undertook to favour my flight. He agreed for my passage with the captain of a New York sloop, to whom he represented me as a young man of his acquaintance, who had an affair with a girl of bad character, whose parents wished to compel me to marry her, and that of consequence I could neither make my appearance nor go off publicly. I sold part of my books to procure a small sum of money, and went privately on board the sloop. By favour of a good wind, I found myself in three days at New York, nearly three hundred miles from my home, at the age of seventeen years, without knowing an individual in the place, and with very little money in my pocket.

The inclination I had felt for a sea-faring life had entirely subsided, or I should now have been able to gratify it; but having another trade, and believing myself to be a tolerable workman, I hesitated not to offer my services to old Mr. William Bradford, who had been the first printer in Pennsylvania, but had quitted that province on account of a quarrel with George Keith, the governor. He could

not give me employment himself, having little to do and already as many persons as he wanted; but he told me that his son, a printer at Philadelphia, had lately lost his principal workman, Aquila Rose, who was dead, and that, if I would go thither, he believed that he would engage me. Philadelphia was an hundred miles farther. I hesitated not to embark in a boat in order to repair, by the shortest cut of the sea, to Amboy, leaving my trunk and effects to come after me by the usual and more tedious conveyance. In crossing the bay, we met with a squall, which shattered to pieces our rotten sails, prevented us from entering the Kill, and threw us upon Long Island.

During the squall a drunken Dutchman, who like myself was a passenger in the boat, fell into the sea. At the moment that he was sinking, I seized him by the fore-top, saved him, and drew him on board. This immersion sobered him a little, so that he fell asleep, after having taken from his pocket a volume, which he requested me to dry. This volume I found to be my old favourite, Bunyan, in Dutch, a beautiful impression on fine paper, with copper-plate engravings—a dress in which I had never seen it in its original language. I have since learned that it has been translated into almost all the languages of Europe, and next to the Bible, I am persuaded, it is one of the books which has had the greatest spread. Honest John is the first, that I know of, who has mixed narrative and dialogue together; a mode of writing very engaging to the reader, who in the most interesting passages, finds himself admitted as it were into the company, and present at the conversation. De Foe has imitated it with success in his Robinson Crusoe, his Moll-Flanders, and other works; as also Richardson in his Pamela, &c.

In approaching the island, we found that we had made a part of the coast where it was not possible to land, on account of the strong breakers produced by the rocky shore

We cast anchor and veered the cable towards the shore. Some men, who stood upon the brink, hallooed to us, while we did the same on our part; but the wind was so high, and the waves so noisy, that we could neither of us hear each other. There were some canoes upon the bank, and we called out to them, and made signs to prevail on them to come and take us up; but either they did not understand us, or they deemed our request impracticable, and withdrew. Night came on, and nothing remained for us but to wait quietly the subsiding of the wind; till when, we determined, that is, the pilot and I, to sleep if possible. For that purpose we went below the hatches along with the Dutchman, who was drenched with water. The sea broke over the boat, and reached us in our retreat, so that we were presently as completely drenched as he.

We had very little repose during the whole night: but the wind abating the next day, we succeeded in reaching Amboy before it was dark, after having passed thirty hours without provisions, and with no other drink than a bottle of bad rum, the water upon which we rowed being salt. In the evening I went to bed with a very violent fever. I had somewhere read that cold water drank plentifully, was a remedy in such cases. I followed the prescription, was in a profuse sweat for the greater part of the night, and the fever left me. The next day I crossed the river in a ferry-boat, and continued my journey on foot. I had fifty miles to walk, in order to reach Burlington, where I was told I should find passage-boats that would convey me to Philadelphia. It rained hard the whole day, so that I was wet to the skin. Finding myself fatigued about noon, I stopped at a paltry inn, where I passed the rest of the day and the whole night, beginning to regret that I had quitted my home. I made besides so wretched a figure, that I was suspected to be some runaway servant. This I discovered by the questions that were asked me

and I felt that I was every moment in danger of being taken up as such. The next day, however, I continued my journey, and arrived in the evening at an inn, eight or ten miles from Burlington, that was kept by one Dr. Brown.

This man entered into conversation with me while I took some refreshment, and perceiving that I had read a little, he expressed towards me considerable interest and friendship. Our acquaintance continued during the remainder of his life.

I believe him to have been what is called an itinerant doctor: for there was no town in England, or indeed in Europe, of which he could not give a particular account. He was neither deficient in understanding or literature, but he was a sad infidel; and, some years after, wickedly undertook to travesty the Bible, in burlesque verse, as Cotton has travestied Virgil. He exhibited, by this means, many facts in a very ludicrous point of view, which would have given umbrage to weak minds, had his work been published, which it never was.

I spent the night at his house, and reached Burlington the next morning. On my arrival, I had the mortification to learn that the ordinary passage-boats had sailed a little before. This was on a Saturday, and there would be no other boat till the Tuesday following. I returned to the house of an old woman in the town, who had sold me some gingerbread to eat on my passage, and I asked her advice. She invited me to take up my abode with her till an opportunity offered for me to embark. Fatigued with having travelled so far on foot, I accepted her invitation. When she understood that I was a printer, she would have persuaded me to stay at Burlington, and set up my trade; but she was little aware of the capital that would be necessary for such a purpose! I was treated while at her house with true hospitality. She gave me with the utmost good-will a dinner of beef-steaks, and would accept of nothing in return but a pint of ale.

Here I imagined myself to be fixed till the Tuesday in the ensuing week; but walking out in the evening by the river side, I saw a boat with a number of persons in it approach. It was going to Philadelphia, and the company took me in. As there was no wind, we could only make way with our oars. About midnight, not perceiving the town, some of the company were of opinion that we must have passed it, and were unwilling to row any farther; the rest not knowing where we were, it was resolved that we should stop. We drew rewards the shore, entered a creek, and landed near some old palisades, which served us for fire-wood, it being a cold night in October. Here we stayed till day, when one of the company found the place in which we were to be Cooper's creek, a little above Philadelphia; which in reality we perceived the moment we were out of the creek. We arrived on Sunday about eight or nine o'clock in the morning, and landed on Market-street wharf.

I have entered into the particulars of my voyage, and shall in like manner describe my first entrance into this city, that you may be able to compare beginnings so little auspicious, with the figure I have since made.

On my arrival at Philadelphia I was in my working dress, my best clothes being to come by sea. I was covered with dirt; my pockets were filled with shirts and stockings; I was unacquainted with a single soul in the place, and knew not where to seek for a lodging. Fatigued with walking, rowing, and having passed the night without sleep, I was extremely hungry, and all my money consisted of a Dutch dollar, and about a shilling's worth of coppers, which I gave to the boatmen for my passage. As I had assisted them in rowing, they refused it at first; but I insisted on their taking it. A man is sometimes more generous when he has little, than when he has much money; probably because, in the first case, he is desirous of concealing his poverty.

I walked towards the top of the street, looking eagerly on both sides, till I came to Market-street, where I met a child with a loaf of bread. Often had I made my dinner on dry bread. I inquired where he had bought it, and went straight to the baker's shop which he pointed out to me. I asked for some biscuits, expecting to find such as we had at Boston; but they made, it seems, none of that sort at Philadelphia. I then asked for a threepenny loaf; they made no loaves of that price. Finding myself ignorant of the prices, as well as of the different kinds of bread, I desired him to let me have three penny-worth of bread of some kind or other. He gave me three large rolls. I was surprised at receiving so much; I took them, however, and having no room in my pockets, I walked on with a roll under each arm, eating the third. In this manner I went through Market-street to Fourth-street, and passed the house of Mr. Read, the father of my future wife. She was standing at the door, observed me, and thought with reason, that I made a very singular and grotesque appearance.

I then turned the corner, and went through Chesnut-street, eating my roll all the way; and having made this round, I found myself again on Market-street wharf, near the boat in which I arrived. I stepped into it to take a draught of the river water; and finding myself satisfied with my first roll, I gave the other two to a woman and her child, who had come down the river with us in the boat, and was waiting to continue her journey. Thus refreshed, I regained the street, which was now full of well-dressed people, all going the same way. I joined them, and was thus led to a large Quakers' meeting-house near the market-place. I sat down with the rest, and after looking round me for some time, hearing nothing said, and being drowsy from my last night's labour and want of rest, I fell into a sound sleep. In this state I continued till the assembly

dispersed, when one of the congregation had the goodness to wake me. This was consequently the first house I entered, or in which I slept, at Philadelphia.

I began again to walk along the street by the river side ; and looking attentively in the face of every one I met, I at length perceived a young quaker whose countenance pleased me. I accosted him, and begged him to inform me where a stranger might find a lodging. We were then, near the sign of the "three Marinera." "They receive travellers here," said he, " but it is not a house that bears a good character ; if you will go with me, I will shew you a better one." He conducted me to the Crooked-billet, in Water-street. There I ordered something for dinner, and during my meal a number of curious questions were put to me : my youth and appearance exciting the suspicion of my being a runaway. After dinner my drowsiness returned, and I threw myself upon a bed without taking off my clothes, and slept till six o'clock in the evening, when I was called to supper. I afterwards went to bed at a very early hour, and did not awake till the next morning.

As soon as I got up, I put myself in as decent a trim as I could, and went to the house of Andrew Bradford the printer. I found his father in the shop, whom I had seen at New York. Having travelled on horseback, he had arrived at Philadelphia before me. He introduced me to his son, who received me with civility, and gave me some breakfast ; but told me he had no occasion at present for a journeyman, having lately procured one. He added, that there was another printer newly settled in the town, of the name of Keimer, who might perhaps employ me ; and that in case of refusal, I should be welcome to lodge at his house, and he would give me a little work now and then, till something better should offer.

The old man offered to introduce me to the new printer. When we were at his house : " Neighbour," said he, " I

bring you a young man in the printing business; perhaps you may have need of his services."

Keimer asked me some questions, put a composing stick in my hand to see how I could work, and then said, that at present he had nothing for me to do, but that he should soon be able to employ me. At the same time taking old Bradford for an inhabitant of the town well disposed towards him, he communicated his project to him, and the prospect he had of success. Bradford was careful not to discover that he was the father of the other printer; and from what Keimer had said, that he hoped shortly to be in possession of the greater part of the business of the town, led him by artful questions, and by starting some difficulties, to disclose all his views, what his hopes were founded upon, and how he intended to proceed. I was present, and heard it all. I instantly saw that one of the two was a cunning old fox, and the other a perfect novice. Bradford left me with Keimer, who was strangely surprised when I informed him who the old man was.

I found Keimer's printing materials to consist of an old damaged press, and a small font of worn out English letters, with which he himself was at work upon an elegy on Aquila Rose, whom I have mentioned above, an ingenious young man, and of an excellent character, highly esteemed in the town, secretary to the assembly, and a very tolerable poet. Keimer also made verses, but they were indifferent ones. He could not be said to write in verse, for his method was to set the lines as they flowed from his muse; and as he worked without copy, had but one set of letter-cases, and the elegy would probably occupy all his types, it was impossible for any one to assist him. I endeavoured to put his press in order, which he had not yet used, and of which indeed he understood nothing; and having promised to come and work off his elegy as soon as it should be ready, I returned to the house of Brad-

ford, who gave me some trifle to do for the present, for which I had my board and lodging.

In a few days Keimer sent for me to print off his clegy. He had now procured another set of letter-cases, and had a pamphlet to reprint, upon which he set me to work.

The two Philadelphia printers appeared destitute of every qualification necessary in their profession. Bradford had not been brought up to it, and was very illiterate. Keimer, though he understood a little of the business, was merely a compositor, and wholly incapable of working at the press. He had been one of the French prophets, and knew how to imitate their supernatural agitations. At the time of our first acquaintance he professed no particular religion, but a little of all upon occasion. He was totally ignorant of the world, and a great knave at heart, as I had afterwards an opportunity of experiencing.

Keimer could not endure that, working with him, I should lodge at Bradfords. He had indeed a house, but it was unfurnished, so that he could not take me in. He procured me a lodging at Mr. Read's, his landlord, whom I have already mentioned. My trunk and effects being now arrived, I thought of making, in the eyes of Miss Read, a more respectable appearance than when chance exhibited me to her view, eating my roll, and wandering in the streets.

From this period I began to contract acquaintance with such young people of the town as were fond of reading, and spent my evenings with them agreeably, while at the same time I gained money by my industry, and, thanks to my frugality, lived contented. I thus forgot Boston as much as possible, and wished every one to be ignorant of the place of my residence, except my friend Collins, to whom I wrote, and who kept my secret.

An incident, however, arrived, which sent me home much sooner than I had proposed. I had a brother-in-law, of the name of Robert Holmes, master of a trading sloop from

Boston to Delaware. Being at Newcastle, forty miles below Philadelphia, he heard of me, and wrote to inform me of the chargin which my sudden departure from Boston had occasioned my parents, and of the affection which they still entertained for me, assuring me that, if I would return, every thing should be adjusted to my satisfaction ; and he was very pressing in his entreaties. I answered his letter, thanked him for his advice, and explained the reasons which had induced me to quit Boston, with such force and clearness, that he was convinced I had been leas to blame than he had imagined.

Sir William Keith, governor of the province, was at Newcastle at the time. Captain Holmes, being by chance in his company when he received my letter, took occasion to speak of me, and showed it him. The governor read it, and appeared surprised when he learned my age. He thought me, he said, a young man of very promising talents, and that, of consequence, I ought to be encouraged ; that there were at Philadelphia none but very ignorant printers, and that if I were to set up for myself, he had no doubt of my success ; that, for his own part, he would procure me all the public business, and would render me every other service in his power. My brother-in law related all this to me afterwards at Boston, but I knew nothing of it at the time ; when one day Keimer and I being at work together near the window, we saw the governor and another gentleman, colonel French, of Newcastle, handsomely dressed, cross the street, and make directly for our house. We heard them at the door, and Keimer believing it to be a visit to himself, went immediately down : but the governor inquired for me, came up stairs, and with a condescension and politeness to which I had not at all been accustomed, paid me many compliments, desired to be acquainted with me, obligingly reproached me for not having made myself known to him on my arrival in the town, and wished me to accompany him to a tavern, where he and colonel

French were going to taste some excellent Madeira wine.

I was, I confess, somewhat surprised, and Keimer appeared thunderstruck. I went, however, with the governor and the colonel to a tavern at the corner of Third-street, where, while we were drinking the Madeira, he proposed to me to establish a printing-house. He set forth the probabilities of success, and himself and colonel French assured me that I should have their protection and influence in obtaining the printing of the public papers of both governments; and as I appeared to doubt whether my father would assist me in this enterprise, Sir William said that he would give me a letter to him, in which he would represent the advantages of the scheme, in a light which he had no doubt would determine him. It was thus concluded that I should return to Boston by the first vessel, with the letter of recommendation, from the governor to my father. Meanwhile the project was to be kept secret, and I continued to work for Keimer as before.

The governor sent every now and then to invite me to dine with him. I considered this as a very great honour; and I was the more sensible of it, as he conversed with me in the most affable, familiar, and friendly manner imaginable.

Towards the end of April 1724, a small vessel was ready to sail for Boston. I took leave of Keimer, upon the pretext of going to see my parents. The governor gave me a long letter, in which he said many flattering things of me to my father; and strongly recommended the project of my settling at Philadelphia, as a thing which could not fail to make my fortune.

Going down the bay we struck on a flat, and sprung a leak. The weather was very tempestuous, and we were obliged to pump, without intermission; I took my turn.

No. 2.

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We arrived, however, safe and sound at Boston, after about a fortnight's passage.

I had been absent about seven complete months, and my relations, during that interval, had received no intelligence of me; for my brother-in-law, Holmes, was not yet returned, and had not written about me. My unexpected appearance surprised the family; but they were all delighted at seeing me again, and, except my brother, welcomed me home. I went to him in the printing-house. I was better dressed than I had ever been while in his service: I had a complete suit of clothes, new and neat, a watch in my pocket, and my purse was furnished with nearly five pounds sterling in money. He gave me no very civil reception; and having eyed me from head to foot, resumed his work.

The workmen asked me with eagerness where I had been, what sort of a country it was, and how I liked it. I spoke in the highest terms of Philadelphia, the happy life we led there, and expressed my intention of going back again. One of them asking what sort of money we had, I displayed before them a handful of silver, which I drew from my pocket. This was a curiosity to which they were not accustomed, paper being the current money of Boston. I failed not after this to let them see my watch; and at last, my brother continuing sullen and out of humour, I gave them a shilling to drink, and took my leave. This visit stung my brother to the soul; for when, shortly after, my mother spoke to him of a reconciliation, and a desire to see us upon good terms, he told her that I had so insulted him before his men, that he would never forget or forgive it: in this, however, he was mistaken.

The governor's letter appeared to excite in my father some surprise; but he said little. After some days, captain Holmes being returned, he showed it him, asking him if he knew Keith, and what sort of a man he was: adding that, in his opinion, it proved very little discernment to

think of setting up a boy in business, who for three years to come would not be of an age to be ranked in the class of men. Holmes said every thing he could in favour of the scheme; but my father firmly maintained its absurdity, and at last gave a positive refusal. He wrote, however, a civil letter to Sir William, thanking him for the protection he had so obligingly offered me, but refusing to assist me for the present, because he thought me too young to be entrusted with the conduct of so important an enterprise, and which would require so considerable a sum of money.

My old comrade Collins, who was a clerk in the post-office, charmed with the account I gave of my new residence, expressed a desire of going thither; and while I waited my father's determination, he set off before me by land for Rhode Island, leaving his books, which formed a handsome collection in mathematics and natural philosophy, to be conveyed with mine to New York, where he purposed to wait for me.

My father, though he could not approve Sir William's proposal, was yet pleased that I had obtained so advantageous a recommendation as that of a person of his rank, and that my industry and economy had enabled me to equip myself so handsomely in so short a period. Seeing no appearance of accommodating matters between my brother and me, he consented to my return to Philadelphia, advised me to be civil to every body, to endeavour to obtain general esteem, and avoid satire and sarcasm, to which he thought I was too much inclined: adding, that with perseverance and prudent economy, I might, by the time I became of age, save enough to establish myself in business; and that if a small sum should then be wanting, he would undertake to supply it.

This was all I could obtain from him, except some trifling presents, in token of friendship from him and my mo-

ther. I embarked once more for New York, furnished at this time with their approbation and blessing. The sloop having touched at Newport in Rhode Island, I paid a visit to my brother John, who had for some years been settled there, and was married. He had always been attached to me, and he received me with great affection. One of his friends, whose name was Vernon, having a debt of about thirty-six pounds due to him in Pennsylvania, begged me to receive it for him, and to keep the money till I should hear from him: accordingly he gave me an order for that purpose. This affair occasioned me, in the sequel, much uneasiness.

At Newport we took on board a number of passengers; among whom were two young women, and a grave and sensible quaker lady with her servants. I had shewn an obliging forwardness in rendering the quaker some trifling services, which led her, probably, to feel an interest in my welfare; for when she saw a familiarity take place, and every day increase, between the two young women and me, she took me aside and said: "Young man, I am in pain for thee. Thou hast no parent to watch over thy conduct, and thou seemest to be ignorant of the world, and the snares to which youth is exposed. Rely upon what I tell thee: those are women of bad characters: I perceive it in all their actions. If thou dost not take care, they will lead thee into danger. They are strangers to thee, and I advise thee, by the friendly interest I take in thy preservation, to form no connection with them." As I appeared at first not to think quite so ill of them as she did, she related many things she had seen-and heard, which had escaped my attention, but which convinced me that she was in the right. I thanked her for her obliging advice, and promised to follow it.

When we arrived at New York, they informed me where they lodged, and invited me to come and see them.

I did not, however, go, and it was well I did not; for the next day, the captain missing a silver spoon and some other things which had been taken from the cabin, and knowing these women to be prostitutes, procured a search-warrant, found the stolen goods upon them, and had them punished. And thus after having been saved from one rock concealed under water, upon which the vessel struck during our passage, I escaped another of a still more dangerous nature.

At New York I found my friend Collins, who had arrived some time before. We had been intimate from our infancy, and had read the same books together; but he had the advantage of being able to devote more time to reading and study, and an astonishing disposition for mathematics, in which he left me far behind him. When at Boston, I had been accustomed to pass with him almost all my leisure hours. He was then a sober and industrious lad; his knowledge had gained him a very general esteem, and he seemed to promise to make an advantageous figure in society. But, during my absence, he had unfortunately addicted himself to brandy, and I learned, as well from himself as from the report of others, that every day since his arrival at New York he had been intoxicated, and had acted in a very extravagant manner. He had also played, and lost all his money; so that I was obliged to pay his expences at the inn, and to maintain him during the rest of his journey; a burthen that was very inconvenient to me.

The governor of New York, whose name was Burnet, hearing the captain say, that a young man who was a passenger in his ship had a great number of books, begged him to bring me to his house. I accordingly went, and should have taken Collins with me, had he been sober. The governor treated me with great civility, shewed me his library, which was a very considerable one, and we

talked for some time upon books and authors. This was the second governor who had honoured me with his attention, and to a poor boy, as I was then, these little adventures did not fail to be pleasing.

We arrived at Philadelphia. On the way I received Vernon's money, without which we should have been unable to have finished our journey.

Collins wished to get employment as a merchant's clerk, but either his breath or his countenance betrayed his bad habit; for, though he had recommendations he met with no success, and continued to lodge and eat with me, and at my expense. Knowing that I had Vernon's money, he was continually asking me to lend him some of it, promising to repay me as soon as he should get employment. At last he had drawn so much of this money, that I was extremely alarmed at what might become of me, should he fail to make good the deficiency. His habit of drinking did not at all diminish, and was a frequent source of discord between us; for when he had drank a little too much, he was very headstrong.

Being one day in a boat together on the Delaware, with some other young persons, he refused to take his turn in rowing. "You shall row for me," said he, "till we get home."—"No," I replied, "we will not row for you."—"You shall," said he, "or remain upon the water all night."—"As you please."—"Let us row," said the rest of the company; "what signifies whether he assists or not." But, already angry with him for his conduct in other respects, I persisted in my refusal. He then swore that he would make me row, or he would throw me out of the boat; and he made up to me. As soon as he was within my reach, I took him by the collar, gave him a violent thrust, and threw him head foremost into the river. I knew that he was a good swimmer, and was therefore under no apprehension for his life. Before he could turn himself, we were

able by a few strokes of our oars, to place ourselves out of his reach ; and whenever he touched the boat, we asked him if he would row, striking his hands at the same time with the oars, to make him let go his hold. He was nearly suffocated with rage, but obstinately refused making any promise to row. Perceiving, at length, that his strength began to be exhausted, we took him into the boat, and conveyed him home in the evening completely drenched. The utmost coldness subsisted between us after this adventure. At last the captain of a West-India ship, who was commissioned to procure a tutor for the children of a gentleman at Barbadoes, meeting with Collins, offered him the place. He accepted it, and took his leave of me, promising to discharge the debt he owed me with the first money he should receive ; but I have heard nothing of him since.

The violation of the trust reposed in me by Vernon, was one of the first great errors of my life ; and it proves that my father was not mistaken when he supposed me too young to be intrusted with the management of important affairs. But Sir William, upon reading his letter, thought him too prudent. There was a difference, he said, between individuals : years of maturity were not always accompanied with discretion, neither was youth in every instance devoid of it. " Since your father," added he, " will not set you up in business, I will do it myself. Make out a list of what will be wanted from England, and I will send for the articles. You shall repay me when you can. I am determined to have a good printer here, and I am sure you will succeed." This was said with so much seeming cordiality that I suspected not for an instant the sincerity of the offer. I had hitherto kept the project, with which Sir William had inspired me, of settling in business, a secret at Philadelphia, and I still continued to do so. Had my reliance on the governor been known, some friend better acquainted with his character than myself, would

doubtless have advised me not to trust him ; for I afterwards learned he was universally known to be liberal of promises, which he had no intention to perform. But having never solicited him, how could I suppose his offers to be deceitful ?—On the contrary, I believed him to be the best man in the world.

I gave him an inventory of a small printing-office, the expence of which I had calculated at about a hundred pounds sterling. He expressed his approbation ; but asked, if my presence in England, that I might choose the characters myself, and see that every article was good in its kind, would not be an advantage ? “ You will also be able,” said he, “ to form some acquaintance there, and establish a correspondence with stationers and booksellers.” This I acknowledged was desirable. “ That being the case,” added he, “ hold yourselves in readiness to go with the *Annis*.” This was the annual vessel, and the only one, at that time, which made regular voyages between the ports of London and Philadelphia. But the *Annis* was not to sail for some months. I therefore continued to work with Keimer, unhappy respecting the sum which Collins had drawn from me, and almost in continual agony at the thoughts of Vernon, who fortunately made no demand of his money till several years after.

In the account of my first voyage from Boston to Philadelphia, I omitted, I believe, a trifling circumstance, which will not, perhaps, be out of place here. During a calm which stopped us above Black Island, the crew employed themselves in fishing for cod, of which they caught a great number. I had hitherto adhered to my resolution of not eating any thing that had possessed life ; and I considered on this occasion, agreeably to the maxims of my master Tryon, the capture of every fish as a sort of murder, committed without provocation, since these animals had neither done, nor were capable of doing the smallest injury to any

one that should justify the measure. This mode of reasoning I conceived to be unanswerable. Meanwhile, I had formerly been extremely fond of fish; and when one of these cod was taken out of the frying-pan, I thought its flavour delicious. I hesitated some time between principle and inclination, till at last recollecting, that when the cod had been opened, some small fish were found in its belly, I said to myself, if you eat one another, I see no reason why we may not eat you. I accordingly dined on the cod with no small degree of pleasure, and have since continued to eat like the rest of mankind, returning only occasionally to my vegetable plan. How convenient does it prove to be a rational animal, that knows how to find or invent a plausible pretext for whatever it has an inclination to do!

I continued to live upon good terms with Keimer, who had not the smallest suspicion of my projected establishment. He still retained a portion of his former enthusiasm; and, being fond of argument, we frequently disputed together, I was so much in the habit of using my Socratic method, and had so frequently puzzled him by my questions, which appeared at first very distant from the point in debate, yet nevertheless led to it by degrees, involving him in difficulties and contradictions from which he was unable to extricate himself, that he became at last ridiculously cautious, and would scarcely answer the most plain and familiar question without previously asking me—What would you infer from that? Hence he formed so high an opinion of my talents for refutation, that he seriously proposed to me to become his colleague in the establishment of a new religious sect. He was to propagate the doctrine by preaching, and I to refute every opponent.

When he explained to me his tenets, I found many absurdities which I refused to admit, unless he would agree in turn to adopt some of my opinions. Keimer wore his beard long, because Moses had somewhere said, “Thou

shall not mar the corners of thy beard." He likewise observed the Sabbath; and these were with him two very essential points. I disliked them both: but I consented to adopt them, provided he would agree to abstain from animal food. "I doubt," said he, "whether my constitution will be able to support it." I assured him on the contrary, he would find himself the better for it. He was naturally a glutton, and I wished to amuse myself by starving him. He consented to make trial of this regimen, if I would bear him company; and in reality we continued it for three months. A woman in the neighbourhood prepared and brought us our victuals, to whom I gave a list of forty dishes; in the composition of which there were entered neither flesh nor fish. This fancy was the more agreeable to me, as it turned to good account; for the whole expence of our living did not exceed for each eighteen pence a week.

I have since that period observed several Lents with the greatest strictness, and have suddenly returned again to my ordinary diet, without experiencing the smallest inconvenience; which has led me to regard as of no importance the advice commonly given, of introducing gradually such alterations of regimen.

I continued it cheerfully, but poor Keimer suffered terribly. Tired of the project, he sighed for the flesh-pots of Egypt. At length he ordered a roast pig, and invited me and two of our female acquaintance to dine with him; but the pig being ready a little too soon, he could not resist the temptation, and eat it all up before we arrived.

During the circumstances I have related, I had paid some attentions to Miss Read. I entertained for her the utmost esteem and affection; and I had reason to believe that these sentiments were mutual. But we were both young, scarcely more than eighteen years of age; and as I was on the point of undertaking a long voyage, her mother thought it prudent to prevent matters being carried too far

for the present, judging that, if marriage was our object, there would be more propriety in it after my return, when, as at least I expected, I should be established in my business. Perhaps; also, she thought my expectations were not so well founded as I imagined.

My most intimate acquaintance at this time were Charles Osborne, Joseph Watson, and James Ralph: young men who were all fond of reading. The two first were clerks to Mr. Charles Brockdon, one of the principal attorneys in the town, and the other clerk to a merchant. Watson was an upright, pious, and sensible young man: the others were somewhat more loose in their principles of religion, particularly Ralph, whose faith, as well as that of Collins, I had contributed to shake; each of whom made me suffer a very adequate punishment. Osborne was sensible, and sincere and affectionate in his friendships, but too much inclined to the critic in matters of literature. Ralph was ingenious and shrewd, genteel in his address, and extremely eloquent. I do not remember to have met with a more agreeable speaker. They were both enamoured of the muses, and had already evinced their passion by some small poetical productions.

It was a custom with us to take a charming walk on Sundays, in the woods that border the Skuylkil. Here we read together, and afterwards conversed on what we read. Ralph was disposed to give himself up entirely to poetry. He flattered himself that he should arrive at great eminence in the art, and even acquire a fortune. The sublimest poets, he pretended, when they first began to write, committed as many faults as himself. Osborne endeavoured to dissuade him, by assuring him that he had no genius for poetry, and advised him to stick to the trade in which he had been brought up. "In the road of commerce," said he, "you will be sure, by diligence and assiduity, though you have no capital, of so far succeeding as to be employ-

ed as a factor; and may thus, in time, acquire the means of setting up for yourself." I concurred in these sentiments, but at the same time expressed my approbation of amusing ourselves sometimes with poetry, with a view to improve our style. In consequence of this it was proposed, that, at our next meeting, each of us should bring a copy of verses of his own composition. Our object in this competition was to benefit each other by our mutual remarks, criticisms, and corrections; and as style and expression were all we had in view, we excluded every idea of invention, by agreeing that our task should be a version of the eighteenth psalm, in which is described the descent of the Deity.

The time of our meeting drew near, when Ralph called upon me, and told me that his performance was ready. I informed him that I had been idle, and, not much liking the task, had done nothing. He shewed me his piece, and asked me what I thought of it. I expressed myself in terms of warm approbation; because it really appeared to have considerable merit. He then said, "Osborne will never acknowledge the smallest degree of excellence in any production of mine. Envy alone dictates to him a thousand animadversions. Of you he is not so jealous: I wish, therefore, you would take the verses, and produce them as your own. I will pretend not to have had leisure to write any thing. We shall then see in what manner he will speak of them." I agreed to this little artifice, and immediately transcribed the verses to prevent all suspicion.

We met. Watson's performance was the first that was read; it had some beauties, but many faults. We next read Osborne's, which was much better. Ralph did it justice, remarking a few imperfections, and applauding such parts as were excellent. He had himself nothing to show. It was now my turn. I made some difficulty; seemed as if I wished to be excused; pretended that I had

had no time to make corrections, &c. No excuse, however, was admissible, and the piece must be produced. It was read, and re-read. Watson and Osborne immediately resigned the palm, and united in applauding it, Ralph alone made a few remarks, and proposed some alterations; but I defended my text. Osborne agreed with me, and told Ralph that he was no more able to criticise than he was able to write.

When Osborne was alone with me, he expressed himself still more strongly in favour of what he considered as my performance. He pretended that he had put some restraint upon himself before, apprehensive of my construing his commendation into flattery. "But who would have supposed," said he, "Franklin to be capable of such a composition? what painting—what energy—what fire! He has surpassed the original. In his common conversation he appears not to have a choice of words; he hesitates, and is at a loss—and yet, good God! how he writes!"

At our next meeting, Ralph discovered the trick we had played Osborne, who was rallied without mercy.

By this adventure Ralph was fixed in his determination of becoming a poet. I left nothing unattempted to divert him from his purpose; but he persevered, till at last the reading of Pope effected his cure: he became, however, a very tolerable prose-writer. I shall speak more of him hereafter; but as I shall probably have no farther occasion to mention the other two, I ought to observe here that Watson died a few years after in my arms. He was greatly regretted, for he was the best of our society. Osborne went to the islands, where he gained considerable reputation as a barrister, and was getting money; but he died young. We had seriously engaged, that whoever died first should return (if possible) and pay a friendly visit to the survivor, to give him an account of the other world—but he has never fulfilled his engagement.

The governor appeared to be fond of my company, and frequently invited me to his house. He always spoke of his intention of settling me in business, as a point that was decided. I was to take with me letters of recommendation to a number of his friends, and particularly a letter of credit, in order to obtain the necessary sum for the purchase of my press, types, and paper. He appointed various times for me to come for these letters, which would certainly be ready, and when I came, always put me off to another day.

These successive delays continued till the vessel, whose departure had been several times deferred, was on the point of setting sail; when I again went to Sir William's house, to receive my letters and take leave of him. I saw his secretary, Dr. Bard, who told me that the governor was extremely busy writing, but that he would be down at Newcastle before the vessel, and that the letters would be delivered to me there.

Ralph, though he was married and had a child, determined to accompany me in this voyage. His object was supposed to be the establishing a correspondence with some mercantile houses, in order to sell goods by commission; but I afterwards learned that, having reason to be dissatisfied with the parents of his wife, he proposed to himself to leave her on their hands, and never return to America again.

Having taken leave of my friends, and interchanged promises of fidelity with Miss Read, I quitted Philadelphia. At Newcastle the vessel came to anchor. The governor was arrived, and I went to his lodgings. His secretary received me with great civility, told me on the part of the governor that he could not see me then, as he was engaged in affairs of the utmost importance, but that he would send the letters on board, and that he wished me, with all his heart, a good voyage and speedy return. I returned,

somewhat astonished, to the ship, but still without entertaining the slightest suspicion.

Mr. Hamilton, a celebrated barrister of Philadelphia, had taken a passage to England for himself and his son, and, in conjunction with Mr. Denham, a quaker, and Messrs. Oniam and Russel, proprietors of a forge in Maryland, had agreed for the whole cabin; so that Ralph and I were obliged to take up our lodging with the crew. Being unknown to every body in the ship, we were looked upon as of the common order of people: but Mr. Hamilton and his son, (it was James, who was afterwards governor,) left us at Newcastle, and returned to Philadelphia, where he was recalled at a very great expence, to plead the cause of a vessel that had been seized; and just as we were about to sail, colonel French came on board, and shewed me many civilities. The passengers upon this paid me more attention, and I was invited, together with my friend Ralph, to occupy the place in the cabin which the return of the Mr. Hamiltons had made vacant; an offer which we very readily accepted.

Having learned that the despatches of the governor had been brought on board by colonel French, I asked the captain for the letters that were to be entrusted to my care. He told me that they were all put together in the bag, which he could not open at present; but before we reached England, he would give me an opportunity of taking them out. I was satisfied with this answer, and we pursued our voyage.

The company in the cabin were all very sociable, and we were perfectly well off as to provisions, as we had the advantage of the whole of Mr. Hamilton's who had laid in a very plentiful stock. During the passage, Mr. Denham contracted a friendship for me, which ended only with his life: in other respects the voyage was by no mean an agreeable one, as we had much bad weather.

When we arrived in the river, the captain was as good as his word, and allowed me to search in the bag for the governor's letters. I could not find a single one with my name written on it, as committed to my care; but I selected six or seven, which I judged from the direction to be those that were intended for me; particularly one to Mr. Basket the king's printer, and another to a stationer, who was the first person I called upon. I delivered him the letter as coming from governor Keith. "I have no acquaintance" (said he) "with any such person;" and opening the letter, "Oh, it is from Riddlesden!" he exclaimed, "I have lately discovered him to be a very arrant knave, and wish to have nothing to do either with him or his letters." He instantly put the letter into my hand, turned upon his heel, and left me, to serve some customers.

I was astonished at finding these letters were not from the governor. Reflecting, and putting circumstances together, I then began to doubt his sincerity. I rejoined my friend Denham, and related the whole affair to him. He led me at once into Keith's character, told me there was not the least probability of his having written a single letter; that no one who knew him ever placed any reliance on him, and laughed at my credulity in supposing that the governor would give me a letter of credit, when he had no credit for himself. As I showed some uneasiness respecting what step I should take, he advised me to try to get employment in the house of some printer. "You may there", said he, "improve yourself in business, and you will be able to settle yourself the more advantageously when you return to America.

We knew already, as well as the stationer, attorney Riddlesden to be a knave. He had nearly ruined the father of Miss Read, by drawing him in to be his security. We learned from his letter, that he was secretly carrying on an intrigue, in concert with the governor, to the prejudice of

Mr. Hamilton, who it was supposed would by this time be in Europe. Denham, who was Hamilton's friend, was of opinion that he ought to be made acquainted with it; and in reality, the instant he arrived in England, which was very soon after, I waited on him, and, as much from goodwill to him, as from resentment against the governor, put the letter into his hands. He thanked me very sincerely, the information it contained being of consequence to him; and from that moment bestowed on me his friendship, which afterwards proved on many occasions serviceable to me.

But what are we to think of a governor who could play so scurvy a trick, and thus grossly deceive a poor young lad, wholly destitute of experience? It was a practice with him. Wishing to please every body, and having little to bestow, he was lavish of promises. He was in other respects sensible and judicious, a very tolerable writer, and a good governor for the people; though not so for the proprietaries whose instructions he frequently disregarded. Many of our best laws were his work, and established during his administration.

Ralph and I were inseparable companions. We took a lodging together at three and sixpence a week, which was as much as we could afford. He met with some relations in London, but they were poor and not able to assist him. He now, for the first time, informed me of his intention to remain in England, and that he had no thoughts of ever returning to Philadelphia. He was totally without money; the little he had been able to raise having barely sufficed for his passage. I had still fifteen pistoles remaining; and to me he had from time to time recourse, while he tried to get employment.

At first, believing himself possessed of talents for the stage, he thought of turning actor; but Wilkes, to whom he applied, frankly advised him to renounce the idea, as it was impossible he should succeed. He next proposed to

Roberts, a bookseller in Paternoster-row, to write a weekly paper in the manner of the Spectator, upon terms to which Roberts would not listen. Lastly, he endeavoured to procure employment as a copyist, and applied to the lawyers and stationers about the Temple; but he could find no vacancy.

As to myself, I immediately got engaged at Palmer's, at that time a noted printer in Bartholomew-close, with whom I continued nearly a year. I applied very assiduously to my work; but I expended with Ralph almost all that I earned. Plays, and other places of amusement which we frequented together, having exhausted my pistoles, we lived after this from hand to mouth. He appeared to have entirely forgotten his wife and child, as I also, by degrees, forgot my engagements with Miss Read, to whom I never wrote more than one letter, and that merely to inform her that I was not likely to return soon. This was another grand error of my life, which I should be desirous of correcting were I to begin my career again.

I was employed at Palmer's on the second edition of Woolaston's Religion of Nature. Some of his arguments appearing to me not to be well-founded, I wrote a small metaphysical treatise, in which I animadverted on those passages. It was entitled a "Dissertation on Liberty and Necessity, Pleasure and Pain." I dedicated it to my friend Ralph, and printed a small number of copies. Palmer upon this treated me with more consideration, and regarded me as a young man of talents; though he seriously took me to task for the principles of my pamphlet, which he looked upon as abominable. The printing of this work was another error of my life.

While I lodged in Little Britain I formed acquaintance with a bookseller of the name of Wilcox, whose shop was next door to me. Circulating libraries were not then in use. He had an immense collection of books of all sorts.

We agreed that, for a reasonable retribution, of which I have now forgotten the price, I should have free access to his library, and take what books I pleased, which I was to return when I had read them. I considered this agreement as a very great advantage; and I derived from it as much benefit as was in my power.

My pamphlet falling into the hands of a surgeon, of the name of Lyons, author of a book intitled, "Infallibility of Human Judgment," was the occasion of a considerable intimacy between us. He expressed great esteem for me, came frequently to see me, in order to converse upon metaphysical subjects, and introduced me to Dr. Mandeville, author of the Fable of the Bees, who had instituted a club at a tavern in Cheapside, of which he was the soul. He was a facetious and very amusing character. He also introduced me, at Batson's coffee-house, to Dr. Pember-ton, who promised to give me an opportunity of seeing Sir Isaac Newton, which I very ardently desired; but he never kept his word,

I had brought some curiosities with me from America, the principal of which was a purse made of the asbestos, which fire only purifies. Sir Hans Sloane hearing of it, called upon me, and invited me to his house in Bloomsbury-square, where, after showing me every thing that was curious, he prevailed on me to add this piece to his collection; for which he paid me very handsomely.

There lodged in the same house with us a young woman, a milliner, who had a shop by the side of the Exchange. Lively and sensible, and having received an education somewhat above her rank, her conversation was very agreeable. Ralph read plays to her every evening. They became intimate. She took another lodging, and he followed her. They lived for some time together; but Ralph being without employment, she having a child, and the profits of her business not sufficing for the maintenance

of three, he resolved to quit London, and try a country school. This was a plan in which he thought himself likely to succeed ; as he wrote a fine hand, and was versed in arithmetic and accounts. But considering the office as beneath him, and expecting some day to make a better figure in the world, when he should be ashamed of its being known that he had exercised a profession so little honourable, he changed his name, and did me the honour to assume mine. He wrote to me soon after his departure, informing me that he was settled at a small village in Berkshire. In his letter he recommended Mrs. T\*\*\*, the milliner, to my care, and requested an answer, directed to Mr. Franklin, schoolmaster, at N\*\*\*.

He continued to write to me frequently, sending me large fragments of an epic poem he was composing, and which he begged of me to criticise and correct. I did so, but not without endeavouring to prevail on him to renounce this pursuit. Young had just published one of his satires. I copied and sent him a great part of it ; in which the author demonstrates the folly of cultivating the muses, from the hope, by their instrumentality, of rising in the world. It was all to no purpose ; paper after paper of his poem continued to arrive every post.

Meanwhile Mrs. T\*\*\* having lost, on his account, both her friends and her business, was frequently in distress. In this dilemma she had recourse to me ; and to extricate her from difficulties, I lent her all the money I could spare. I felt a little too much fondness for her. Having at that time no ties of religion, and taking advantage of her necessitous situation, I attempted liberties, (another error of my life,) which she repelled with becoming indignation. She informed Ralph of my conduct ; and the affair occasioned a breach between us. When he returned to London, he gave me to understand that he considered all the obligations he owed me as annihilated by this proceeding : whence I

concluded that I was never to expect the payment of what money I had lent him, or advanced on his account. I was the less afflicted at this, as he was wholly unable to pay me; and as, by losing his friendship, I was relieved at the same time from a very heavy burden.

I now began to think of laying by some money. The printing-house of Watts, near Lincoln's-Inn Fields, being a still more considerable one than that in which I worked, it was probable I might find it more advantageous to be employed there. I offered myself, and was accepted; and in this house I continued during the remainder of my stay in London.

On my entrance I worked at first as a pressman, conceiving that I had need of bodily exercise, to which I had been accustomed in America, where the printers work alternately as compositors and at the press. I drank nothing but water. The other workmen, to the number of about fifty, were great drinkers of Beer. I carried occasionally a large form of letters in each hand, up and down stairs, while the rest employed both hands to carry one. They were surprised to see, by this and many other examples, that the *American Aquatic*, as they used to call me, was stronger than those who drank porter. The beer-boy had sufficient employment during the whole day in serving that house alone. My fellow pressman drank every day a pint of beer before breakfast, a pint with bread and cheese for breakfast, one between breakfast and dinner, one at dinner, one again about six o'clock in the afternoon, and another after he had finished his day's work. This custom appeared to me abominable; but he had need, he said, of all this beer, in order to acquire strength to work.

I endeavoured to convince him that the bodily strength furnished by the beer, could only be in proportion to the solid part of the barley dissolved in the water of which the beer was composed; that there was a larger portion of flour

in a penny loaf, and that consequently if he ate this loaf, and drank a pint of water with it, he would derive more strength from it than from a pint of beer. This reasoning, however, did not prevent him from drinking his accustomed quantity of beer, and paying every Saturday night a score of four or five shillings a week for this cursed beverage; an expence from which I was wholly exempt. Thus do these poor devils continue all their lives in a state of voluntary wretchedness and poverty.

At the end of a few weeks, Watts having occasion for me above stairs as a compositor, I quitted the press. The compositors demanded of me garnish money afresh. This I considered as an imposition, having already paid below. The master was of the same opinion, and desired me not to comply. I thus remained two or three weeks out of the fraternity. I was consequently looked upon as excommunicated: and whenever I was absent, no little trick that malice could suggest was left unpractised upon me. I found my letters mixed, my pages transposed, my matter broken, &c. all which was attributed to the spirit that haunted the chapel,\* and tormented those who were not regularly admitted. I was at last obliged to submit to pay, notwithstanding the protection of the master; convinced of the folly of not keeping up a good understanding with those among whom we are destined to live.

After this I lived in the utmost harmony with my fellow-labourers, and soon acquired considerable influence among them. I proposed some alterations in the laws of the chapel, which I carried without opposition. My example prevailed with several of them to renounce their abominable practice of bread and cheese with beer; and they procured, like me, from a neighbouring house, a good basin of warm gruel, in which was a small slice of butter, with

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\* Printing houses in general are thus denominated by the workmen: the spirit they call by the name of *Ralph*.

tasted bread and nutmeg. This was a much better breakfast, which did not cost more than a pint of beer, namely, three halfpence, and at the same time preserved the head clearer. Those who continued to gorge themselves with beer, often lost their credit with the publican, from neglecting to pay their score. They had then recourse to me, to become security for them; *their light*, as they used to call it, *being out*. I attended at the pay-table every Saturday evening, to take up the little sum which I had made myself answerable for; and which sometimes amounted to nearly thirty shillings a week.

This circumstance, added to my reputation of being a tolerable good *gabber*, or, in other words, skilful in the art of burlesque, kept up my importance in the chapel. I had besides recommended myself to the esteem of my master by my assiduous application to business, never observing Saint Monday. My extraordinary quickness in composing always procured me such work as was most urgent, and which is commonly best paid; and thus my time passed away in a very pleasant manner.

My lodging in Little Britain being too far from the printing-house, I took another in Duke-street, opposite the Roman Catholic chapel. It was at the back of an Italian warehouse. The house was kept by a widow, who had a daughter, a servant, and a shop-boy; but the latter slept out of the house. After sending to the people with whom I lodged in Little Britain, to inquire into my character, she agreed to take me in at the same price, three and sixpence a week; contenting herself, she said, with so little, because of the security she should derive, as they were all women, from having a man lodger in her house.

She was a woman rather advanced in life, the daughter of a clergyman. She had been educated a protestant; but her husband, whose memory she highly revered, had converted her to the Catholic religion. She had lived in

habits of intimacy with persons of distinction ; of whom she knew various anecdotes as far back as the time of Charles II. Being subject to fits of the gout, which often confined her to her room, she was sometimes disposed to see company. Her's was so amusing to me, that I was glad to pass the evening with her as often as she desired it. Our supper consisted only of half an anchovy a piece, upon a slice of bread and butter, with half a pint of ale between us. But the entertainment was in her conversation.

The early hours I kept and the little trouble I occasioned in the family, made her loth to part with me ; and when I mentioned another lodging I had found, nearer the printing-house, at two shillings a week, which fell in with my plan of saving, she persuaded me to give it up, making herself an abatement of two shillings : and thus I continued to lodge with her, during the remainder of my abode in London, at eighteen pence a week.

In a garret of the house there lived, in the most retired manner, a lady seventy years of age, of whom I received the following account from my landlady. She was a Roman Catholic. In her early years she had been sent to the continent, and entered a convent with the design of becoming a nun ; but the climate not agreeing with her constitution, she was obliged to return to England, where, as there were no monasteries, she made a vow to lead a monastic life, in as rigid a manner as circumstances would permit. She accordingly disposed of all her property to be applied to charitable uses, reserving to herself only twelve pounds a year ; and of this small pittance she gave a part to the poor, living on water gruel, and never making use of fire but to boil it. She had lived in this garret a great many years, without paying rent to the successive Catholic inhabitants that had kept the house ; who indeed considered her abode with them as a blessing. A priest came every day to confess her. "I have asked her,"

said my landlady, "how living as she did, she could find so much employment for a confessor?" To which she answered, that it was impossible to avoid vain thoughts.

I was once permitted to visit her. She was cheerful and polite, and her conversation agreeable. Her apartment was neat; but the whole furniture consisted of a mattress, a table, on which were a crucifix and a book, a chair, which she gave to me to sit on, and over the mantelpiece a picture of St. Veronica displaying her handkerchief, on which was seen the miraculous impression of the face of Christ, which she explained to me with great gravity. Her countenance was pale, but she had never experienced sickness; and I may adduce her as another proof how little is sufficient to maintain life and health.

At the printing house I contracted an intimacy with a sensible young man of the name of Wygate, who, as his parents were in good circumstances, had received a better education than is common among printers. He was a tolerable Latin scholar, spoke French fluently, and was fond of reading. I taught him, as well as a friend of his, to swim, by taking them twice only into the river; after which they stood in need of no farther assistance. We one day made a party to go by water to Chelsea, in order to see the College, and Don Soltero's curiosities. On our return, at the requests of the company, whose curiosity Wygate had excited, I undressed myself, and leaped into the river. I swam from near Chelsea the whole way to Blackfriars, exhibiting, during my course, a variety of seats of activity and address, both upon the surface of the water, as well as under it. This sight occasioned much astonishment and pleasure to those to whom it was new. In my youth I took great delight in this exercise. I knew, and could execute, all the evolutions and positions of Thevenot; and I added to them some of my own invention, in which I endeavoured to unite gracefulness and utility. I took a pleasure in dis-

playing them all on this occasion, and was highly flattered with the admiration they excited.

Wygate, besides his being desirous of perfecting himself in this art, was the more attached to me from their being, in other respects, a conformity in our tastes and studies. He at length proposed to me to make the tour of Europe with him, maintaining ourselves at the same time by working at our profession. I was on the point of consenting, when I mentioned it to my friend Mr. Denham, with whom I was glad to pass an hour whenever I had leisure. He dissuaded me from the project, and advised me to think of returning to Philadelphia, which he was about to do himself. I must relate in this place a trait of this worthy man's character.

He had formerly been in business at Bristol, but failing, he compounded with his creditors, and departed for America, where by assiduous application as a merchant, he acquired in a few years a very considerable fortune. Returning to England in the same vessel with myself, as I have related above, he invited all his old creditors to a feast. When assembled, he thanked them for the readiness with which they had received his small composition; and, while they expected nothing more than a simple entertainment, each found under his plate, when it came to be removed, a draft upon a banker for the residue of his debt, with interest.

He told me that it was his intention to carry back with him to Philadelphia a great quantity of goods, in order to open a store; and he offered to take me with him in the capacity of clerk, to keep his books, in which he would instruct me, copy letters, and superintend the store. He added, that as soon as I had acquired a knowledge of mercantile transactions, he would improve my situation, by sending me with a cargo of corn and flour to the American islands, and by procuring me other lucrative commissions;

so that, with good management and economy, I might in time begin business with advantage for myself.

I relished these proposals. London began to tire me; the agreeable hours I had passed at Philadelphia presented themselves to my mind, and I wished to see them revive. I consequently engaged myself to Mr. Denham, at a salary of fifty pounds a year. This was indeed less than I earned as a compositor, but then I had a much fairer prospect. I took leave therefore, as I believed for ever, of printing, and gave myself up entirely to my new occupation, spending all my time either in going from house to house with Mr. Denham to purchase goods, or in expediting the workmen, &c. &c. When every thing, however, was on board, I had at last a few days leisure.

During this interval, I was one day sent for by a gentleman, whom I knew only by name. It was Sir William Wyndham. I went to his house. He had by some means heard of my performance between Chelsea and Blackfriars, and that I had taught the art of swimming to Wygate and another young man in the course of a few hours. His two sons were on the point of setting out on their travels: he was desirous that they should previously learn to swim, and offered me a very liberal reward if I would undertake to instruct them. They were not yet arrived in town, and the stay I should make was uncertain; I could not therefore accept this proposal. I was led, however, to suppose from this incident, that if I had wished to remain in London, and open a swimming school, I should perhaps have gained a great deal of money. This idea struck me so forcibly that, had the offer been made sooner, I should have dismissed the thought of returning as yet to America. Some years after, you and I had a more important business to settle with one of the sons of Sir William Wyndham, then Lord Egremont. But let us not anticipate events.

I thus passed about eighteen months in London, work-

ing almost without intermission at my trade, avoiding all expence on my own account, except going now and then to the play, and purchasing a few books. But my friend Ralph kept me poor. He owed me about twenty-seven pounds, which was so much money lost; and when considered as taken from my little savings, was a very great sum. I had, notwithstanding this, a regard for him, as he possessed many amiable qualities. But though I had done nothing for myself in point of fortune, I had increased my stock of knowledge, either by the many excellent books I had read, or the conversation of learned and literary persons w th whom I was acquainted.

We sailed from Gravesend the 23rd of July, 1726. For the incidents of my voyage I refer you to my Journal, where you will find all its circumstances minutely related. We landed at Philadelphia on the 11th of the following October.

Keith had been deprived of his office of governor, and was succeeded by Major Gordon. I met him walking in the streets as a private individual. He appeared a little ashamed at seeing me, but passed on without saying any thing.

I should have been equally ashamed myself at meeting Miss Read, had not her family, justly despairing of my return after reading my letter, advised her to give me up, and marry a potter, of the name of Rogers; to which she consented; but he never made her happy, and she soon separated from him, refusing to cohabit with him, or even bear his name, on account of a report which prevailed, of his having another wife. His skill in his profession had seduced Miss Read's parents; but he was as bad a subject as he was excellent as a workman. He involved himself in debt and fled, in the year 1727 or 1728, to the West Indies, where he died.

During my absence Keimer had taken a more consid-

rable house, in which he kept a shop, that was well supplied with paper, and various other articles. He had procured some new types, and a number of workmen; among whom, however, there was not one who was good for anything; and he appeared not to want business.

Mr. Denham took a warehouse in Water-street, where we exhibited our commodities. I applied myself closely, studied accounts, and became in a short time very expert in trade. We lodged and ate together. He was sincerely attached to me, and acted towards me as if he had been my father. On my side, I respected and loved him. My situation was happy; but it was a happiness of no long duration.

Early in February, 1727, when I entered into my twenty-second year, we were both taken ill. I was attacked with a pleurisy, which had nearly carried me off; I suffered terribly, and considered it as all over with me. I felt indeed a sort of disappointment when I found myself likely to recover, and regretted that I had still to experience, sooner or later, the same disagreeable scene again.

I have forgotten what was Mr. Denham's disorder; but it was a tedious one, and he at last sunk under it. He left me a small legacy in his will, as a testimony of his friendship: and I was once more abandoned to myself in the wide world, the warehouse being confided to the care of the testamentary executor, who dismissed me.

My brother-in-law, Holmes, who happened to be at Philadelphia, advised me to return to my former profession; and Keimer offered me a very considerable salary if I would undertake the management of his printing-office, that he might devote himself entirely to the superintendence of his shop. His wife and relations in London had given me a bad character of him; and I was loth, for the present, to have any concern with him. I endeavoured to get employment as clerk to a merchant; but not readily finding a situation, I was induced to accept Keimer's proposal.

The following were the persons I found in his printing house :

Hugh Meredith, a Pennsylvanian, about thirty-five years of age. He had been brought up to husbandry, was honest, sensible, had some experience, and was fond of reading; but too much addicted to drinking.

Stephen Potts, a young rustic, just broke from school, and of rustic education, with endowments rather above the common order, and a competent portion of understanding and gaiety; but a little idle. Keimer had engaged these two at very low wages, which he had promised to raise every three months a shilling a week, provided their improvement in the typographic art should merit it. This future increase of wages was the bait he made use of to ensnare them. Meredith was to work at the press, and Potts to bind books, which he had engaged to teach them, though he understood neither himself.

John Savage, an Irishman, who had been brought up to no trade, and whose service, for a period of four years, Keimer had purchased of the captain of a ship. He was also to be a pressman.

George Webb, an Oxford scholar, whose time he had in like manner bought for four years, intending him for a compositor. I shall speak more of him presently.

Lastly, David Harry, a country lad, who was apprenticed to him.

I soon perceived that Keimer's intention, in engaging me at a price so much above what he was accustomed to give, was, that I might form all these raw journeymen and apprentices, who scarcely cost him any thing, and who, being indentured, would, as soon as they should be sufficiently instructed, enable him to do without me. I nevertheless adhered to my agreement. I put the office in order, which was in the utmost confusion, and brought his people by degrees, to pay attention to their work, and to execute it in a more masterly style.

It was singular to see an Oxford scholar in the condition of a purchased servant. He was not more than eighteen years of age, and the following are the particulars he gave me of himself. Born at Gloucester, he had been educated at a grammar school, and had distinguished himself among the scholars by his superior style of acting, when they represented dramatic performances. He was a member of a literary club in the town ; and some pieces of his composition, in prose as well as in verse, had been inserted in the Gloucester papers. From hence he was sent to Oxford, where he remained about a year : but he was not contented, and wished above all things to see London, and become an actor. At length, having received fifteen guineas to pay his quarter's board, he decamped with the money, from Oxford, hid his gown in a hedge, and travelled to London. There, having no friend to direct him, he fell into bad company, soon squandered his fifteen guineas, could find no way of being introduced to the actors, became contemptible, pawned his clothes, and was in want of bread. As he was walking along the streets, almost famished with hunger, and not knowing what to do, a recruiting-bill was put into his hand, which offered an immediate treat and bounty-money to whoever was disposed to serve in America. He instantly repaired to the house of rendezvous, enlisted himself, was put on board a ship and conveyed to America, without ever writing a line to inform his parents what was become of him. His mental vivacity, and good natural disposition, made him an excellent companion ; but he was indolent, thoughtless, and to the last degree imprudent.

John, the Irishman, soon ran away. I began to live very agreeably with the rest. They respected me, and the more so as they found Keimer incapable of instructing them, and as they learned something from me every day. We never worked on a Saturday, it being Keimer's Sabbath, so that I had two days a week for reading.

I increased my acquaintance with persons of information and knowledge in the town. Keimer himself treated me with great civility, and apparent esteem ; and I had nothing to give me uneasiness but my debt to Vernon, which I was unable to pay, my savings as yet being very little. He had the goodness, however, not to ask me for the money.

Our press was frequently in want of the necessary quantity of letter, and there was no such trade as that of letter-founder in America. I had seen the practice of this art at the house of James, in London, but had at the time paid it very little attention ; I however, contrived to fabricate a mould. I made use of such letters as we had for punches, founded new letters of lead in matrices of clay, and thus supplied in a tolerable manner, the wants that were most pressing.

I also, upon occasion, engraved various ornaments, made ink, gave an eye to the shop—in short, I was in every respect the *factotum*. But useful as I made myself, I perceived that my services became every day of less importance, in proportion as the other men improved ; and when Keimer paid me my second quarter's wages, he gave me to understand they were too heavy, and that he thought I ought to make an abatement. He became by degrees less civil, and assumed more the tons of master. He frequently found fault, was difficult to please, and seemed always on the point of coming to an open quarrel with me.

I continued, however, to bear it patiently, conceiving that his ill humour was partly occasioned by the derangement and embarrassment of his affairs. At last a slight incident broke our connection. Hearing a noise in the neighbourhood, I put my head out at the window, to see what was the matter. Keimer being in the street, observed me, and in a loud and angry tone bid me to mind my work ; adding some reproachful words, which piqued me the more, as they were uttered in the street ; and the

neighbours, whom the same noise attracted to the windows, were witnesses of the manner in which I was treated. He immediately came up to the printing-room, where he continued to exclaim against me. The quarrel became warm on both sides, and he gave me notice to quit him at the expiration of three months, as had been agreed upon between us; regretting that he was obliged to give me so long a term. I told him that his regret was superfluous, as I was ready to quit him instantly; and I took my hat and came out of the house, begging Meredith to take care of some things which I left, and bring them to my lodgings.

Meredith came to me in the evening. We talked for some time upon the quarrel that had taken place. He had conceived a great veneration for me, and was sorry I should quit the house, while he remained in it. He dissuaded me from returning to my native country, as I began to think of doing. He reminded me that Keimer owed more than he possessed; that his creditors began to be alarmed; that he kept his shop in a wretched state, often selling things at prime cost for the sake of ready money, and continually giving credit without keeping any accounts; that of consequence he must very soon fail, which would occasion a vacancy from which I might derive advantage. I objected my want of money. Upon which he informed me that his father had a very high opinion of me, and, from a conversation that had passed between them, he was sure he would advance whatever might be necessary to establish us, if I was willing to enter into partnership with him. "My time with Keimer," added he, "will be at an end next spring. In the mean time we may send to London for our press and types. I know that I am no workman; but if you agree to the proposal, your skill in the business will be balanced by the capital I shall furnish, and we will share the profits equally." His proposal was reasonable, and I fell in with it. His father, who was then in town,

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approved of it. He knew that I had some ascendancy over his son, as I had been able to prevail on him to abstain for a long time from drinking brandy; and he hoped that, when more closely connected with him, I should cure him entirely of this unfortunate habit.

I gave the father a list of what it would be necessary to import from London. He took it to a merchant; and the order was given. We agreed to keep the secret till the arrival of the materials, and I was in the mean time to procure work, if possible, in another printing-house; but there was no place vacant, and I remained idle. After some days, Keimer having the expectation of being employed to print some New Jersey money-bills, that would require types and engravings which I only could furnish, and fearful that Bradford, by engaging me, might deprive him of this undertaking, sent me a very civil message, telling me that old friends ought not to be disunited on account of a few words, which were the effect only of a momentary passion, and inviting me to return to him. Meredith persuaded me to comply with the invitation, particularly as it would afford him more opportunities of improving himself in the business, by means of my instructions. I did so; and we lived upon better terms than before our separation.

He obtained the New Jersey business; and, in order to execute it, I constructed a copper-plate printing-press! the first that had been seen in the country. I engraved various ornaments and vignettes for the bills; and we repaired to Burlington together, where I executed the whole to the general satisfaction; and he received a sum of money for this work, which enabled him to keep his head above water for a considerable time longer.

At Burlington I formed an acquaintance with the principal personages of the province; many of whom were commissioned by the assembly to superintend the press, and to see that no more bills were printed than the law

had prescribed. Accordingly they were constantly with us, each in his turn ; and he that came, commonly brought with him a friend or two to bear him company. My mind was more cultivated by reading than Keimer's ; and it was for this reason, probably, that they set more value on my conversation. They took me to their houses, introduced me to their friends, and treated me with the greatest civility ; while Keimer, though master, saw himself a little neglected. He was, in fact, a strange animal, ignorant of the common modes of life, apt to oppose with rudeness generally received opinions, an enthusiast in certain points of religion, disgustingly unclean in his person, and a little knavish withal.

We remained there nearly three months, and at the expiration of this period I could include in the list of my friends, Judge Allen, Samuel Bustil, secretary of the province, Isaac Pearson, Joseph Cooper, several of the Smiths, all members of the assembly, and Isaac Decon, inspector-general. The last was a shrewd and subtle old man. He told me, that, when a boy, his first employment had been that of carrying clay to the brick-makers ; that he did not learn to write till he was somewhat advanced in life ; and that he was afterwards employed as an underling to a surveyor, who taught him his trade, and that by industry he had at last acquired a competent fortune. "I foresee," said he one day to me, "that you will soon supplant this man," speaking of Keimer, "and get a fortune in the business at Philadelphia." He was wholly ignorant at the time, of my intention of establishing myself there, or any where else. These friends were very serviceable to me in the end, as was I also, upon occasion, to some of them ; and they have continued ever since their esteem for me.

Before I relate the particulars of my entrance into business, it may be proper to inform you what was at that time the state of my mind as to moral principles, that you

may see the degree of influence they had upon the subsequent events of my life.

My parents had given me betimes religious impressions, and I received from my infancy a pious education in the principles of Calvinism. But scarcely was I arrived at fifteen years of age, when, after having doubted in turn of different tenets, according as I found them combated in the different books that I read, I began to doubt of revelation itself. Some volumes against deism fell into my hands. They were said to be the substance of sermons preached at Boyle's lecture. It happened that they produced on me an effect precisely the reverse of what was intended by the writers; for the arguments of the deists, which were cited in order to be refuted, appeared to me much more forcible than the refutation itself. In a word, I soon became a perfect deist. My arguments perverted some other young persons, particularly Collins and Ralph. But in the sequel, when I recollect that they had both used me extremely ill, without the smallest remorse; when I considered the behaviour of Keith, another free-thinker, and my own conduct towards Vernon and Miss Read, which at times gave me great uneasiness, I was led to suspect that this doctrine, though it might be true, was not very useful. I began to entertain a less favourable opinion of my London pamphlet to which I had prefixed as a motto, the following lines of Dryden:

Whatever is—is right; though purblind man  
Sees but a part of the chain, the nearest link,  
His eyes not carrying to the equal beam  
That poises all above.

And of which the object was to prove, from the attributes of God; his goodness, wisdom, and power, that there could be no such thing as evil in the world; that vice and virtue

did not in reality exist, and were nothing more than vain distinctions. I no longer regarded it as so blameless a work as I had formerly imagined ; and I suspected that some error must have imperceptibly glided into my argument, by which all the inferences I had drawn from it had been affected, as frequently happens in metaphysical reasonings. In a word, I was at last convinced that truth, probity, and sincerity in transactions between man and man, were of the utmost importance to the happiness of life ; and I resolved from that moment, and wrote the resolution in my journal, to practise them as long as I lived.

Revelation, indeed, as such, had no influence on my mind ; but I was of opinion that, though certain actions could not be bad merely because revelation had prohibited them, or good because it enjoined them, yet it was probable that those actions were prohibited because they were bad for us, or enjoined because advantageous in their nature, all things considered. This persuasion, divine providence, or some guardian angel, and perhaps a concurrence of favourable circumstances co-operating, preserved me from all immorality, or gross and *voluntary* injustice, to which my want of religion was calculated to expose me, in the dangerous period of youth, and in the hazardous situations in which I sometimes found myself, among strangers, and at a distance from the eye and admonitions of my father. I may say *voluntary*, because the errors into which I had fallen, had been in a manner the forced result either of my own inexperience, or the dishonesty of others. Thus, before I entered on my new career, I had imbibed solid principles, and a character of probity. I knew their value ; and I made a solemn engagement with myself never to depart from them.

I had not long returned from Burlington before the printing materials arrived from London. I settled my accounts with Keimer, and quitted him, with his own con-

tent, before he had any knowledge of our plan. We found a house to let near the market. We took it; and to render the rent less burdensome, (it was then twenty-four pounds a year, but I have since known it to let for seventy,) we admitted Thomas Godfrey, a glazier, with his family, who eased us of a considerable part of it; and with him we agreed to board.

We had no sooner unpacked our letters, and put our press in order, than a person of my acquaintance, George House, brought us a countryman, whom he had met in the streets inquiring for a printer. Our money was almost exhausted by the number of things we had been obliged to procure. The five shillings we received from this countryman, the first fruits of our earnings, coming so seasonably, gave me more pleasure than any sum I have since gained; and the recollection of the gratitude I felt on this occasion to George House, has rendered me often more disposed, than perhaps I should otherwise have been, to encourage young beginners in trade.

There are in every country morose beings, who are always prognosticating ruin. There was one of this stamp at Philadelphia. He was a man of fortune, declining in years, had an air of wisdom, and a very grave manner of speaking. His name was Samuel Mickle. I knew him not; but he stopped one day at my door, and asked me if I was the young man who had lately opened a new printing-house. Upon my answering in the affirmative, he said he was very sorry for me, as it was an expensive undertaking, and the money that had been laid out upon it would be lost, Philadelphia being a place falling into decay; its inhabitants having all, or nearly all of them, been obliged to call together their creditors. That he knew, from undoubted fact, the circumstances which might lead us to suppose the contrary, such as new buildings, and an advanced price of rent, to be deceitful appearances, which

in reality, contributed to hasten the general ruin ; and he gave me so long a detail of misfortunes, actually existing, or which were soon to take place, that he left me almost in a state of despair. Had I known this man before I entered into trade, I should doubtless never have ventured. He continued, however, to live in this place of decay, and to declaim in the same style, refusing for many years to buy a house, because all was going to wreck ; and in the end I had the satisfaction to see him pay five times as much for one as it would have cost him had he purchased it when he first began his lamentations.

I ought to have related, that, during the autumn of the preceding year, I had united the majority of well-informed persons of my acquaintance into a club, which we called by the name of the *Junto*, and the object of which was to improve our understandings. We met every Friday evening. The regulations I drew up, obliged every member to propose in his turn, one or more questions upon some point of morality, politics, or philosophy, which were to be discussed by the society ; and to read, once in three months, an essay of his own composition, on whatever subject he pleased. Our debates were under the direction of a president, and were to be dictated only by a sincere desire of truth ; the pleasure of disputing, and the vanity of triumph, having no share in the business ; and in order to prevent undue warmth, every expression which implied obstinate adherence to an opinion, and all direct contradiction, were prohibited, under small pecuniary penalties.

The first members of our club were Joseph Brientnal, whose occupation was that of a scrivener. He was a middle-aged man, of a good natural disposition, strongly attached to his friends, a great lover of poetry, reading every thing that came in his way, and writing tolerably well, ingenious in many little trifles, and of an agreeable conversation.

Thomas Godfrey, a skilful, though self-taught mathematician, and who was afterwards the inventor of what now goes by the name of Hadley's quadrant ; but he had little knowledge out of his own line, and was insupportable in company, always requiring, like the majority of mathematicians that had fallen in my way, an unusual precision in every thing that is said, continually contradicting, or making trifling distinctions ; a sure way of defeating all the ends of conversation. He very soon left us.

Nicholas Scull, a surveyor, and who became afterwards surveyor-general. He was fond of books, and wrote verses.

William Parsons, brought up to the trade of a shoemaker, but who, having a taste for reading, had acquired a profound knowledge of mathematics. He first studied them with a view to astrology, and was, afterwards, the first to laugh at his folly. He also became surveyor-general.

William Mawbridge, a joiner, and very excellent mechanic ; and in other respects a man of solid understanding.

Hugh Meredith, Stephen Potts, and George Webb, of whom I have already spoken.

Robert Grace, a young man of fortune ; generous, animated, and witty ; fond of epigrams, but more fond of his friends.

And lastly, William Coleman, at that time a merchant's clerk, and nearly of my own age. He had a cooler and clearer head, a better heart, and more scrupulous morals, than almost any other person I have ever met with. He became a very respectable merchant, and one of our provincial judges. Our friendship subsisted, without interruption, for more than forty years, till the period of his death ; and the club continued to exist almost as long.

This was the best school of politics and philosophy that then existed in the province ; for our questions, which

were read a week previous to their discussion, induced us to peruse attentively such books as were written upon the subjects proposed, that we might be able to speak upon them more pertinently. We thus acquired the habit of conversing more agreeably ; every object being discussed conformably to our regulations, and in a manner to prevent mutual disgust. To this circumstance may be attributed the long duration of the club ; which I shall have frequent occasion to mention as I proceed.

I have introduced it here, as being one of the means on which I had to count for success in my business, every member exerting himself to procure work for us. Breintnal, among others, obtained for us, on the part of the Quakers, the printing of forty sheets of their history ; of which the rest was to be done by Keimer. Our execution of this work was by no means masterly ; as the price was very low. It was in folio, upon *pro patria* paper, and in *pica* letter, with heavy notes in the smallest type. I composed a sheet a day, and Meredith put it to the press. It was frequently eleven o'clock at night, sometimes later, before I had finished my distribution for the next day's task ; for the little things which our friends occasionally sent us, kept us back in this work : but I was so determined to compose a sheet a day, that one evening, when my form was imposed, and my day's work, as I thought, at an end, an accident having broken this form, and deranged two complete folio pages, I immediately distributed and composed them anew before I went to bed.

This unwearied industry, which was perceived by our neighbours, began to acquire us reputation and credit. I learned, among other things, that our new printing-house being the subject of conversation at a club of merchants, who met every evening, it was the general opinion that it would fail ; there being already two printing-houses in the town, Keimer's and Bradford's. But Dr. Bard, whom

you and I had occasion to see, many years after, at his native town of St. Andrew's, in Scotland, was of a different opinion. "The industry of this Franklin," said he, "is superior to any thing of the kind I ever witnessed. I see him still at work when I return from the club at night, and he is at it again in the morning before his neighbours are out of bed." This account struck the rest of the assembly, and shortly after, one of its members came to our house, and offered to supply us with articles of stationary; but we wished not as yet to embarrass ourselves with keeping a shop. It is not for the sake of applause that I enter so freely into the particulars of my industry, but that such of my descendants as shall read these memoirs may know the use of this virtue, by seeing in the recital of my life the effects it operated in my favour.

George Webb, having found a friend who lent him the necessary sum to buy out his time of Keimer, came one day to offer himself to us as a journeyman. We could not employ him immediately; but I foolishly told him, under the rose, that I intended shortly to publish a new periodical paper, and that we should then have work for him. My hopes of success, which I imparted to him, were founded on the circumstance, that the only paper we had in Philadelphia at that time, and which Bradford printed, was a paltry thing, miserably conducted, in no respect amusing, and which yet was profitable. I consequently supposed, that a good work of this kind could not fail of success. Webb betrayed my secret to Keimer, who, to prevent me, immediately published the *prospectus* of a paper that he intended to institute himself, and in which Webb was to be engaged.

I was exasperated at this proceeding, and, with a view to counteract them, not being able at present to institute my own paper, I wrote some humourous pieces in Bradford's, under the title of the *Busy Body*; and which was

continued for several months by Breintnal. I hereby fixed the attention of the public upon Bradford's paper; and the *prospectus* of Keimer, which we turned into ridicule, was treated with contempt. He began, notwithstanding, his paper; and after continuing it for nine months, having at most not more than ninety subscribers, he offered it to me for a mere trifle. I had for some time been ready for such an engagement; I therefore instantly took it upon myself, and, in a few years, it proved extremely profitable to me.

I perceive that I am apt to speak in the first person, though our partnership still continued. It is, perhaps, because, in fact, the whole business devolved upon me. Meredith was no compositor, and but an indifferent press-man; and it was rarely that he abstained from hard drinking. My friends were sorry to see me connected with him; but I contrived to derive from it the utmost advantage the case admitted.

Our first number produced no other effect than any other paper which had appeared in the province, as to type and printing; but some remarks, in my peculiar style of writing, upon the dispute which then prevailed between governor Burnet and the Massachusetts assembly, struck some persons as above mediocrity, caused the paper and its editors to be talked of, and in a few weeks, induced them to become our subscribers. Many others followed their example; and our subscription continued to increase. This was one of the first good effects of the pains I had taken to learn to put my ideas on paper. I derived this farther advantage from it, that the leading men of the place, seeing in the author of this publication a man so well able to use his pen, thought it right to patronize and encourage me.

The votes, laws, and other public pieces, were printed by Bradford. An address of the house of assembly to the go-

vernor had been executed by him in a very coarse and incorrect manner. We reprinted it with accuracy and neatness, and sent a copy to every member. They perceived the difference; and it so strengthened the influence of our friends in the assembly, that we were nominated its printer for the following year.

Among these friends I ought not to forget one member in particular. Mr. Hamilton, whom I have mentioned in a former part of my narrative, and who was now returned from England. He warmly interested himself for me on this occasion, as he did likewise on many others afterwards; having continued his kindness to me till his death.

About this period Mr Vernon reminded me of the debt I owed him, but without pressing me for payment. I wrote a handsome letter on the occasion, begging him to wait a little longer, to which he consented; and as soon as I was able I paid him, principal and interest, with many expressions of gratitude; so that this error of my life was in a manner atoned for.

But another trouble now happened to me, which I had not the smallest reason to expect. Meredith's father, who, according to our agreement, was to defray the whole expence of our printing materials, had only paid a hundred pounds. Another hundred was still due, and the merchant being tired of waiting, commenced a suit against us. We bailed the action, but with the melancholy prospect, that, if the money was not forthcoming at the time fixed, the affair would come to issue, judgment be put in execution, our delightful hopes be annihilated, and ourselves entirely ruined; as the type and press must be sold, perhaps, at half their value, to pay the debt.

In this distress, two real friends, whose generous conduct I have never forgotten, and never shall forget while I retain the remembrance of any thing, came to me separately, without the knowledge of each other, and without

my having applied to either of them. Each offered me whatever money might be necessary to take the business into my own hands, if the thing was practicable, as they did not like I should continue in partnership with Meredith, who, they said, was frequently seen drunk in the streets, and gambling at ale-houses, which very much injured our credit. These friends were William Coleman and Robert Grace. I told them, that while there remained any probability that the Merediths would fulfil their part of the compact, I could not propose a separation, as I conceived myself to be under obligations to them for what they had done already, and were still disposed to do, if they had the power; but, in the end, should they fail in their engagement, and our partnership be dissolved, I should then think myself at liberty to accept the kindness of my friends.

Things remained for some time in this state. At last, I said one day to my partner, "Your father is, perhaps, dissatisfied with you having a share only in the business, and is unwilling to do for two, what he would do for you alone. Tell me frankly if that be the case, and I will resign the whole to you, and do for myself as well as I can."—"No," said he, "my father has really been disappointed in his hopes; he is not able to pay, and I wish to put him to no farther inconvenience. I see that I am not at all calculated for a printer: I was educated as a farmer, and it was absurd in me to come here, at thirty years of age, and bind myself apprentice to a new trade. Many of my countrymen are going to settle in North Carolina, where the soil is exceedingly favourable. I am tempted to go with them, and to resume my former occupation. You will doubtless find friends who will assist you. If you will take upon yourself the debts of the partnership, return my father the hundred pounds he has advanced, pay my little personal debts, and give me thirty pounds and a new saddle, I will

renounce the partnership, and consign over the whole stock to you."

I accepted this proposal without hesitation. It was committed to paper, and signed and sealed without delay. I gave him what he demanded, and he departed soon after for Carolina, from whence he sent me, in the following year, two long letters, containing the best accounts that had yet been given of that country, as to climate, soil, agriculture, &c. for he was well versed in these matters. I published them in my newspaper, and they were received with great satisfaction.

As soon as he was gone, I applied to my two friends, and not wishing to give a disobliging preference to either of them, I accepted from each, half what he had offered me, and which it was necessary I should have. I paid the partnership debts, and continued the business on my own account: taking care to inform the public, by advertisement, of the partnership being dissolved. This was, I think, in the year 1729, or thereabout.

Nearly at the same period, the people demanded a new emission of paper money; the existing and only one that had taken place in the province, and which amounted to fifteen thousand pounds, being soon to expire. The wealthy inhabitants, prejudiced against every sort of paper currency, from the fear of its depreciation, of which there had been an instance in the province of New England, to the injury of its holders, strongly opposed the measure. We had discussed this affair in our Junto, in which I was on the side of the new emission; convinced that the first small sum, fabricated in 1723, had done much good in the province, by favouring commerce, industry, and population, since all the houses were now inhabited, and many others building; whereas I remember to have seen, when I first paraded the streets of Philadelphia eating my roll, the majority of those in Walnut-street, Second-street, Fourth

street, as well as a great number in Chestnut and other streets, with papers on them signifying that they were to be let; which made me think at the time that the inhabitants of the town were deserting it one after another.

Our debates made me so fully master of the subject, that I wrote and published an anonymous pamphlet, entitled, "An Enquiry into the Nature and Necessity of a Paper Currency." It was very well received by the lower and middling class of people; but it displeased the opulent, as it increased the clamour in favour of the new emission. Having, however, no writer among them capable of answering it, their opposition became less violent; and there being in the house of assembly a majority for the measure, it passed. The friends I had acquired in the house, persuaded that I had done the country essential service on this occasion, rewarded me by giving me the printing of the bills. It was a lucrative employment, and proved a very seasonable help to me; another advantage which I derived from having habituated myself to write.

Time and experience so fully demonstrated the utility of paper currency, that it never after experienced any considerable opposition; so that it soon amounted to 55,000*l.* and, in the year 1789, to 80,000*l.* It has since risen, during the last war, to 350,000*l.* trade, buildings, and population, having in the interval continually increased: but I am now convinced that there are limits beyond which paper money would be prejudicial.

I soon after obtained, by the influence of my friend Hamilton, the printing of the Newcastle paper money, another profitable work, as I then thought it, little things appearing great to persons of moderate fortune; and they were really great to me, as proving great encouragements. He also procured me the printing of the laws and votes of that government, which I retained as long as I continued in the business.

I now opened a small stationer's shop. I kept bonds and agreements of all kinds, drawn up in a more accurate form than had yet been seen in that part of the world; a work in which I was assisted by my friend Breintnal. I had also paper, parchment, pasteboard, books, &c. One Whitemash, an excellent compositor, whom I had known in London, came to offer himself: I engaged him; and he continued constantly and diligently to work with me. I also took an apprentice, the son of Aquila Rose.

I began to pay, by degrees, the debt I had contracted; and, in order to insure my credit and character as a tradesman, I took care not only to be *really* industrious and frugal, but also to avoid every appearance of the contrary. I was plainly dressed, and never seen in any place of public amusement. I never went a fishing or hunting. A book, indeed, enticed me sometimes from my work, but it was seldom, by stealth, and occasioned no scandal; and to show that I did not think myself above my profession, I conveyed home, sometimes in a wheelbarrow, the paper I purchased at the warehouses.

I thus obtained the reputation of being an industrious young man, and very punctual in his payments. The merchants who imported articles of stationary solicited my custom; others offered to furnish me with books, and my little trade went on prosperously.

Meanwhile the credit and business of Keimer diminishing every day, he was at last forced to sell his stock to satisfy his creditors; and he betook himself to Barbadoes, where he lived for some time in a very impoverished state. His apprentice, David Harry, whom I had instructed while I worked for Keimer, having bought his materials, succeeded him in the business. I was apprehensive, at first, of finding in Harry a powerful competitor, as he was allied to an opulent and respectable family; I therefore proposed a partnership, which, happily for me, he rejected

with disdain. He was extremely proud, thought himself a fine gentleman, lived extravagantly, and pursued amusements which suffered him to be scarcely ever at home; of consequence he became in debt, neglected his business, and business neglected him. Finding in a short time nothing to do in the country, he followed Keimer to Barbadoes, carrying his printing materials with him. There the apprentice employed his old master as a journeyman. They were continually quarrelling; and Harry still getting in debt, was obliged at last to sell his press and types, and return to his old occupation of husbandry in Pennsylvania. The person who purchased them employed Keimer to manage the business; but he died a few years after.

I had now at Philadelphia no competitor but Bradford, who, being in easy circumstances, did not engage in the printing of books, except now and then as workmen chanced to offer themselves; and was not anxious to extend his trade. He had, however, one advantage over me, as he had the direction of the post-office, and was of consequence supposed to have better opportunities of obtaining news. His paper was also supposed to be more advantageous to advertising customers; and in consequence of that supposition, his advertisements were much more numerous than mine: this was a source of great profit to him, and disadvantageous to me. It was to no purpose that I really procured other papers, and distributed my own, by means of the post; the public took for granted my inability in this respect; and I was indeed unable to conquer it in any other mode than by bribing the post-boys, who served me only by stealth. Bradford being so illiberal as to forbid them. This treatment of his excited my resentment; and my disgust was so rooted, that, when I afterwards succeeded him in the post-office, I took care to avoid copying his example.

I had hitherto continued to board with Godfrey, who, with his wife and children, occupied part of my house, and half of the shop for his business; at which indeed he worked very little, being always absorbed by mathematics. Mrs. Godfrey formed a wish of marrying me to the daughter of one of her relations. She contrived various opportunities of bringing us together, till she saw that I was captivated, which was not difficult, the lady in question possessing great personal merit. The parents encouraged my addresses, by inviting me continually to supper, and leaving us together, till at last it was time to come to an explanation. Mrs. Godfrey undertook to negotiate our little treaty. I gave her to understand, that I expected to receive with the young lady a sum of money that would enable me at least to discharge the remainder of the debt for my printing materials. It was then, I believe, not more than a hundred pounds. She brought me for answer, that they had no such sum at their disposal. I observed that it might easily be obtained, by a mortgage on their house. The reply to this was, after a few days interval, that they did not approve of the match; that they had consulted Bradford, and found that the business of a printer was not lucrative; that my letters would soon be worn out, and must be supplied with new ones; that Keimer and Harry had failed, and that, probably, I should do so too. Accordingly they forbade me the house, and the young lady was confined. I know not if they had really changed their minds, or if it was merely an artifice, supposing our affections to be too far engaged for us to desist, and that we should contrive to marry secretly, which would leave them at liberty to give or not as they pleased. But, suspecting this motive, I never went again to their house.

Some time after, Mrs. Godfrey informed me that they were very favourably disposed towards me, and wished me

to renew the acquaintance ; but I declared a firm resolution never to have any thing more to do with the family. The Godfreys expressed some resentment at this ; and as we could no longer agree, they changed their residence, leaving me in possession of the whole house. I then resolved to take no more lodgers. This affair having turned my thoughts to marriage, I looked around me, and made overtures of alliance in other quarters : but I soon found that the profession of a printer being generally looked upon as a poor trade, I could expect no money with a wife, at least if I wished her to possess any other charm. Mean while, that passion of youth, so difficult to govern, had often drawn me into intrigues with despicable women who fell in my way ; which were not unaccompanied with expence and inconvenience, besides the perpetual risk of injuring my health, and catching a disease which I dreaded above all things. But I was fortunate enough to escape this anger.

As a neighbour and old acquaintance, I had kept up a friendly intimacy with the family of Miss Read. Her parents had retained an affection for me from the time of my lodging in their house. I was often invited thither they consulted me about their affairs, and I had been sometimes serviceable to them. I was touched with the unhappy situation of their daughter, who was almost always melancholy, and continually seeking solitude. I regarded my forgetfulness and inconstancy, during my abode in London, as the principal cause of her misfortune, though her mother had the candour to attribute the fault to herself, rather than to me, because, after having prevented our marriage previously to my departure, she had induced her to marry another in my absence.

Our mutual affection revived ; but there existed great obstacles to our union. Her marriage was considered, indeed, as not being valid, the man having, it was said, a former wife still living in England ; but of this it was diffi-

cult to obtain a proof at so great a distance ; and though a report prevailed of his being dead, yet we had no certainty of it ; and supposing it to be true, he had left many debts, for the payment of which his successor might be sued. We ventured, nevertheless, in spite of all these difficulties ; and I married her on the 1st of September, 1780. None of the inconveniences we had feared happened to us. She proved to me a good and faithful companion, and contributed essentially to the success of my shop. We prospered together, and it was our mutual study to render each other happy. Thus I corrected, as well as I could, this great error of my youth.

Our club was not at that time established at a tavern. We held our meetings at the house of Mr. Grace, who appropriated a room to the purpose. Some member observed one day, that as our books were frequently quoted in the course of our discussions, it would be convenient to have them collected in the room in which we assembled, in order to be consulted upon occasion ; and that, by thus forming a common library of our individual collections, each would have the advantage of using the books of all the other members, which would nearly be the same as if he possessed them all himself. The idea was approved, and we accordingly brought such books as we thought we could spare, which were placed at the end of the club-room. They amounted not to so many as we expected ; and though we made considerable use of them, yet some inconveniences resulting, from want of care, it was agreed, after about a year, to discontinue the collection ; and each took away such books as belonged to him.

It was now that I first started the idea of establishing, by subscription, a public library. I drew up the proposals, had them engrossed in form by Brockden the attorney, and my project succeeded, as will be seen in the sequel.

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[Thus far Dr. Franklin, in his usual style of ingenuous simplicity and philosophical discernment, has communicated to the world a memoir of himself. It is, however, well known both in this country and America, that amongst his papers was found a continuation of it to a much later period of his life; but this, with many other invaluable, moral, political, and philosophical writings, the legatee has thought proper to suppress. In order, therefore, to gratify the laudable curiosity of the public the following continuation has been subjoined, written by the late Dr. Stuber of Philadelphia; who, for a series of years, was honoured with the friendship and unlimited confidence of Dr. Franklin.]

Error.

THE promotion of literature had been little attended to in Pennsylvania. Most of the inhabitants were too much immersed in business to think of scientific pursuits, and those few, whose inclinations led them to study, found it difficult to gratify them from the want of libraries sufficiently large. In such circumstances, the establishment of a public library was an important event. This was first set on foot by Franklin, about the year 1781. Fifty persons subscribed forty shillings each, and agreed to pay ten shillings annually. The number increased; and in 1742, the company was incorporated by the name of "The Library Company of Philadelphia." Several other companies were formed in this city in imitation of it. These were all at length united with the Library Company of Philadelphia, which thus received a considerable accession of books and property. It now contains about eight thousand volumes on all subjects, a philosophical apparatus, and a well-chosen collection of natural and artificial curiosities. For its support the company now possesses landed property of considerable value. They have lately built an elegant house in Fifth-street, in the front of which will be erected a marble statue of their founder, Benjamin Franklin.

This institution was greatly encouraged by the friends of literature in America and in Great Britain. The Penn family distinguished themselves by their donations. Amongst the earliest friends of this institution must be mentioned the late Peter Collinson, the friend and correspondent of Dr. Franklin. He not only made considerable presents himself, and obtained others from his friends, but voluntarily undertook to manage the business of the Company in London, recommending books, purchasing and shipping them. His extensive knowledge, and zeal for the promotion of science, enabled him to execute this important trust with the greatest advantage. He continued to perform these services for more than thirty years, and uni-

formly refused to accept of any compensation. During this time he communicated to the directors every information relative to improvements and discoveries in the arts, agriculture, and philosophy.

The beneficial influence of this institution was soon evident. The terms of subscription to it were so moderate that it was accessible to every one. Its advantages were not confined to the opulent. The citizens in the middle and lower walks of life were equally partakers of them. Hence a degree of information was extended amongst all classes of people. The example was soon followed. Libraries were established in various places, and they are now become very numerous in the United States, and particularly in Pennsylvania. It is to be hoped that they will be still more widely extended, and that information will be every where increased. This will be the best security for maintaining our liberties. A nation of well-informed men, who have been taught to know and prize the rights which God has given them, cannot be enslaved. It is in the regions of ignorance that tyranny reigns. It dies before the light of science. Let the citizens of America, then, encourage institutions calculated to diffuse knowledge amongst the people; and amongst these, public libraries are not the least important.

In 1732, Franklin began to publish Poor Richard's Almanack. This was remarkable for the numerous and valuable concise maxims which it contained, all tending to exhort to industry and frugality. It was continued for many years. In the almanack for the last year, all the maxims were collected in an address to the reader, entitled, The Way to Wealth. This has been translated into various languages, and inserted in different publications. It has also been printed on a large sheet, and may be seen framed in many houses in this city. This address contains, perhaps, the best practical system of economy that ever has appeared.

It is written in a manner intelligent to every one, and which cannot fail of convincing every reader of the justice and propriety of the remarks and advice which it contains. The demand for this almanack was so great, that ten thousand have been sold in one year; which must be considered as a very large number, especially when we reflect, that this country was, at that time, but thinly peopled. It cannot be doubted that the salutary maxims contained in these almanacks must have made a favourable impression upon many of the readers of them.

It was not long before Franklin entered upon his political career. In the year 1736, he was appointed clerk to the general assembly of Pennsylvania, and was re-elected by succeeding assemblies for several years, until he was chosen a representative for the city of Philadelphia.

Bradford, the printer, mentioned above, was possessed of some advantages over Franklin, by being post-master, thereby having an opportunity of circulating his paper more extensively, and thus rendering it a better vehicle for advertisements, &c. Franklin, in his turn, enjoyed these advantages, by being appointed post-master of Philadelphia in 1737. Bradford, while in office, had acted ungenerously towards Franklin, preventing as much as possible the circulation of his paper. He had now an opportunity of retaliating; but his nobleness of soul prevented him from making use of it.

The police of Philadelphia had early appointed watchmen, whose duty it was to guard the citizens against the midnight robber, and to give an immediate alarm in case of fire. This duty is, perhaps, one of the most important that can be committed to any set of men. The regulations, however, were not sufficiently strict. Franklin saw the dangers arising from this cause, and suggested an alteration, so as to oblige the guardians of the night to be more watchful over the lives and property of the citizens. The pro-

priety of this was immediately perceived, and a reform was effected.

There is nothing more dangerous to growing cities than fires. Other causes operate slowly, and almost imperceptibly; but these in a moment render abortive the labours of ages. On this account there should be, in all cities, ample provisions to prevent fires from spreading. Franklin early saw the necessity of these; and, about the year 1738, formed the first fire company in this city. The example was soon followed by others; and there are now numerous fire companies in the city and liberties. To these may be attributed in a great degree the activity in extinguishing fires, for which the citizens of Philadelphia are distinguished, and the inconsiderable damage this city has sustained from this cause. Some time after, Franklin suggested the plan for an association for insuring houses from losses by fire, which was adopted; and the association continues to this day. The advantages experienced from it have been great.

From the first settlement of Pennsylvania, a spirit of dispute appears to have prevailed among its inhabitants. During the life-time of William Penn, the constitution had been three times altered. After this period the history of Pennsylvania is little else than a recital of the quarrels between the proprietaries, or their governors, and the assembly. The proprietaries contended for the right of exempting their lands from taxes; to which the assembly would by no means consent. This subject of dispute interfered in almost every question, and prevented the most salutary laws from being enacted. This at times subjected the people to great inconveniences. In the year 1744, during a war between France and Great Britain, some French and Indians had made inroads upon the frontier inhabitants of the province, who were unprovided for such an attack. It became necessary that the citizens should arm for their de-

ence. Governor Thomas recommended to the assembly, who were then sitting, to pass a militia law. To this they would agree only upon conditions, that he should give his assent to certain laws, which appeared to them calculated to promote the interests of the people. As he thought these laws would be injurious to the proprietaries, he refused his assent to them; and the assembly broke up without passing a militia bill. The situation of the province was at this time truly alarming; exposed to the continual inroad of an enemy, and destitute of every means of defence. At this crisis Franklin stepped forth, and proposed to a meeting of the citizens of Philadelphia, a plan of a voluntary association for the defence of the province. This was approved of, and signed by twelve hundred persons immediately. Copies were circulated without delay through the province; and in a short time the number of signatures amounted to ten thousand. Franklin was chosen colonel of the Philadelphia regiment; but he did not think proper to accept of the honour.

Pursuits of a different nature now occupied the greatest part of his attention for some years. He engaged in a course of electrical experiments, with all the ardour and thirst for discovery which characterized the philosophers of that day. Of all the branches of experimental philosophy, electricity had been least explored. The attractive power of amber is mentioned by Theophrastus and Pliny, and from them, by later naturalists. In the year 1600, Gilbert, an English physician, enlarged considerably the catalogue of substances which have the property of attracting light bodies. Boyle, Otto Guericke, a burgomaster of Magdeburg, celebrated as the inventor of the air-pump, Dr. Wall, and Sir Isaac Newton, added some facts. Guericke first observed the repulsive power of electricity, and the light and noise produced by it. In 1709, Hawkesbec communicated some important observations and experi-

ments to the world. For several years electricity was entirely neglected, until Mr. Grey applied himself to it, in 1728, with great assiduity. He and his friend Mr. Wheeler, made a great variety of experiments, in which they demonstrated, that electricity may be communicated from one body to another, even without being in contact, and in this way be conducted to a great distance. Mr. Grey afterwards found, that, by suspending rods of iron by silk or hair lines, and bringing an excited tube under them, sparks might be drawn, and a light perceived at the extremities in the dark. M. du Faye, intendant of the French king's gardens, made a number of experiments, which added not a little to the science. He made the discovery of two kinds of electricity, which he called *vitreous* and *resinous*; the former produced by rubbing glass, the latter from excited sulphur, sealing-wax, &c. But this he afterwards gave up as erroneous. Between the years 1739 and 1742, Desaguliers made a number of experiments, but added little of importance. He first used the terms *conductors* and *electrica per se*. In 1742, several ingenious Germans engaged in this subject, of these the principal were, professor Boze of Wittemberg, professor Winkler of Leipsic, Gordon, a Scotch Benedictine monk, professor of philosophy at Erfurt, and Dr. Ludolf of Berlin. The result of their researches astonished the philosophers of Europe. Their apparatus was large, and by means of it they were enabled to collect large quantities of the electric fluid, and thus to produce phenomena which had been hitherto unobserved. They killed small birds, and set spirits on fire. Their experiments excited the curiosity of other philosophers. Collinson, about the year 1745, sent to the Library Company of Philadelphia, an account of these experiments, together with a tube, and directions how to use it. Franklin, with some of his friends, immediately engaged in a course of experiments, the result

of which is well known. He was enabled to make a number of important discoveries, and to propose theories to account for various phenomena, which have been universally adopted, and which bid fair to endure for ages. His observations he communicated in a series of letters, to his friend Collinson, the first of which is dated March 28, 1747. In these he shows the power of points in drawing and throwing off the electrical matter, which had hitherto escaped the notice of electricians. He also made the grand discovery of a *plus* and *minus*, or of a *positive* and *negative* state of electricity. We give him the honour of this, without hesitation; although the English have claimed it for their countryman, Dr. Watson. Watson's paper is dated January 21, 1748; Franklin's July 11, 1747; several months prior. Shortly after, Franklin, from his principles of the plus and minus state, explained, in a satisfactory manner, the phenomena of the Leyden phial, first observed by Mr. Cuneus, or by professor Muschenbroeck, of Leyden, which had much perplexed philosophers. He shewed clearly, that when charged, the bottle contained no more electricity than before, but that as much was taken from one side as was thrown on the other; and that, to discharge it, nothing was necessary but to produce a communication between the two sides, by which the equilibrium might be restored, and that then no signs of electricity would remain. He afterwards demonstrated, by experiments, that the electricity did not reside in the coating as had been supposed, but in the pores of the glass itself. After a phial was charged, he removed the coating, and found that upon applying a new coating, the shock might still be received. In the year 1749, he first suggested his idea of explaining the phenomena of thunder-gusta, and of the aurora borealis, upon electrical principles. He points out many particulars in which lightning and electricity agree; and he adduces many facts, and reasonings from

facts, in support of his positions. In the same year he conceived the astonishingly bold and grand idea of ascertaining the truth of his doctrine, by actually drawing down the lightning, by means of sharp-pointed iron rods, raised into the region of the clouds. Even in this uncertain state, his passion to be useful to mankind displayed itself in a powerful manner. Admitting the identity of electricity and lightning, and knowing the power of points in repelling bodies charged with electricity, and in conducting their fire silently and imperceptibly, he suggested the idea of securing houses, ships, &c. from being damaged by lightning, by erecting pointed rods, that should rise some feet above the most elevated part, and descend some feet into the ground or the water. The effect of these, he concluded, would be either to prevent a stroke by repelling the cloud beyond the striking distance, or by drawing off the electrical fire which it contained ; or, if they could not effect this, they would at least conduct the electric matter to the earth, without any injury to the building.

It was not until the summer of 1752, that he was enabled to complete his grand and unparalleled discovery by experiment. The plan which he had originally proposed, was, to erect on some high tower, or other elevated place, a centry-box, from which should rise a pointed iron rod, insulated by being fixed in a cake of resin. Electrified clouds passing over this, would, he conceived, impart to it a portion of their electricity, which would be rendered evident to the senses by sparks being emitted, when a key, the knuckle, or other conductor was presented to it. Philadelphia at this time afforded no opportunity of trying an experiment of this kind. While Franklin was waiting for the creation of a spire, it occurred to him that he might have more ready access to the region of clouds by means of a common kite. He prepared one by fastening two cross sticks to a silk handkerchief, which would not suffer

so much from the rain as paper. To the upright stick was affixed an iron point. The string was, as usual, of hemp, except the lower end, which was silk. Where the hempen string terminated, a key was fastened. With this apparatus, on the appearance of a thunder-gust approaching, he went out into the commons, accompanied by his son, to whom alone he communicated his intentions, well knowing the ridicule which, too generally for the interest of science, awaits unsuccessful experiments in philosophy. He placed himself under a shade, to avoid the rain—his kite was raised—a thunder-cloud passed over it—no sign of electricity appeared. He almost despaired of success, when, suddenly, he observed the loose fibres of his string to move towards an erect position. He now presented his knuckle to the key, and received a strong spark! How exquisite must his sensations have been at his moment! On this experiment depended the fate of his theory. If he succeeded, his name would rank high among those who had improved science; if he failed, he must inevitably be subjected to the derision of mankind, or, what is worse, their pity as a well meaning man, but a weak, silly projector. The anxiety with which he looked for the result of his experiment, may be easily conceived. Doubts and despair had begun to prevail, when the fact was ascertained in so clear a manner, that even the most incredulous could no longer withhold their assent.—Repeated sparks were drawn from the key, a phial was charged, a shock given, and all the experiments made which are usually performed with electricity.

About a month before this period, some ingenious Frenchman had completed the discovery in the manner originally proposed by Dr. Franklin. The letters which he sent to Mr. Collinson, it is said, were refused a place in the Transactions of the Royal Society of London. However this may be, Collinson published them in a se-

parate volume, under the title of "New Experiments and Observations on Electricity, made at Philadelphia, in America." They were read with avidity, and soon translated into different languages. A very incorrect French translation fell into the hands of the celebrated Buffon, who, notwithstanding the disadvantages under which the work laboured, was much pleased with it, and repeated the experiments with success. He prevailed on his friend, M. D'Alibard, to give his countrymen a more correct translation of the works of the American electrician. This contributed much towards spreading a knowledge of Franklin's principles in France. The king, Louis XV., hearing of these experiments, expressed a wish to be a spectator of them. A course of experiments was given at the seat of the Duc D'Ayen, at St. Germain, by M. de Lor. The applauses which the king bestowed upon Franklin, excited in Buffon, D'Alibard, and De Lor, an earnest desire of ascertaining the truth of his theory of thunder-gusts. Buffon erected his apparatus on the tower of Montbar, M. D'Alibard at Mary-la-ville, and De Lor at his house in the *Estrapade* at Paris, some of the highest gound in that capital. D'Alibard's machine first shewed signs of electricity. On the 10th of May, 1752, a thunder cloud passed over it, in the absence of M. D'Alibard, and a number of sparks were drawn from it by Coiffier, joiner, with whom D'Alibard had left directions how to proceed, and by M. Raulet, the prior of Mary-la-ville. An account of this experiment was given to the Royal Academy of Sciences, by M. D'Alibard, in a Memoir dated May 18th, 1752. On the 18th of May, M. de Lor proved equally successful with the apparatus erected at his own house. These philosophers soon excited those of other parts of Europe to repeat the experiment; amongst whom, none signalised themselves more than Father Beccaria, of Turin, to whose observations science is much indebted. Even the cold

regions of Russia were penetrated by the ardor for discovery. Professor Richman bade fair to add much to the stock of knowledge on this subject, when an unfortunate flash from his conductor, put a period to his existence. The friends of science will long remember with regret, this amiable martyr to electricity.

By these experiments Franklin's theory was established in the most convincing manner. When the truth of it could no longer be doubted, envy and vanity endeavoured to detract from its merit. That an American, an inhabitant of the obscure city of Philadelphia, the name of which was hardly known, should be able to make discoveries, and to frame theories, which had escaped the notice of the enlightened philosophers of Europe, was too mortifying to be admitted. He must certainly have taken the idea from some one else. An American, a being of an inferior order, make discoveries!—Impossible. It was said, that the Abbe Nollet, in 1748, had suggested the idea of the similarity of lightning and electricity in his *Lecons de Physique*. It is true that the Abbe mentions the idea, but he throws it out as a bare conjecture, and proposes no mode of ascertaining the truth of it. He himself acknowledges, that Franklin first entertained the bold thought of bringing lightning from the heavens, by means of pointed rods fixed in the air. The similarity of lightning and electricity is so strong, that we need not be surprised at notice being taken of it, as soon as electrical phenomena became familiar. We find it mentioned by Dr. Wall and Mr. Grey, while the science was in its infancy. But the honour of forming a regular theory of thunder-gusts, of suggesting a mode of determining the truth of it by experiments, and of putting these experiments in practice, and thus establishing the theory upon a firm and solid basis, is incontestibly due to Franklin. D'Alibard, who made the first experiments in France, says, that he only followed the tract which Franklin had pointed out.

It has been of late asserted, that the honour of completing the experiment with the electrical kite, does not belong to Franklin. Some late English paragraphs have attributed it to some Frenchman, whose name they do not mention; and the Abbe Bertholon gives it to M. de Romas, assessor to the presi-deal of Nerac; the English paragraphs probably refer to the same person. But a very slight attention will convince us of the injustice of this procedure: Dr. Franklin's experiment was made in June 1752; and his letter, giving an account of it, is dated October 19, 1752. M. de Romas made his first attempt on the 14th of May, 1753, but was not successful until the 7th of June; a year after Franklin had completed the discovery, and when it was known to all the philosophers in Europe.

Besides these great principles, Franklin's letters on electricity contain a number of facts and hints, which have contributed greatly towards reducing this branch of knowledge to a science. His friend Mr. Kinnersley communicated to him a discovery of the different kinds of electricity, excited by rubbing glass and sulphur. This, we have said, was first observed by M. Du Faye; but it was for many years neglected. The philosophers were disposed to account for the phenomena, rather from a difference in the quantity of electricity collected, and even Du Faye himself seems at last to have adopted this doctrine. Franklin at first entertained the same idea; but upon repeating the experiments, he perceived that Mr. Kinnersley was right; and that the *vitreous* and *resinous* electricity of Du Faye were nothing more than the *positive* and *negative* states which he had before observed; and that the glass globe charged *positively* or increased the quantity of electricity on the prime conductor, while the globe of sulphur diminished its natural quantity, or charged *negatively*. These experiments and observations

opened a new field for investigation, upon which electricians entered with avidity ; and their labours have added much to the stock of our knowledge.

In September, 1752, Franklin entered upon a course of experiments, to determine the state of electricity in the clouds. From a number of experiments he formed this conclusion :—“That the clouds of a thunder-gust are most commonly in a negative state of electricity, but sometimes in a positive state ;” and from this it follows, as a necessary consequence, “that, for the most part, in thunder-strokes, it is the earth that strikes into the clouds, and not the clouds that strike into the earth.” The letter containing these observations is dated in September, 1753 ; and yet the discovery of ascending thunder has been said to be of a modern date, and has been attributed to the Abbe Berthonol, who published his memoir on the subject in 1776.

Franklin’s letters have been translated into most of the European languages, and into Latin. In proportion as they have become known, his principles have been adopted. Some opposition was made to his theories, particularly by the Abbe Nollet, who was, however, but feebly supported, while the first philosophers in Europe stepped forth in defence of Franklin’s principles, amongst whom D’Alibard and Beccaria were the most distinguished. The opposition has gradually ceased, and the Franklinian system is now universally adopted, where science flourishes.

The important practical use which Franklin made of his discoveries, the securing of houses from injury by lightning, has been already mentioned. Pointed conductors are now very common in America ; but prejudice has hitherto prevented their general introduction into Europe, notwithstanding the most undoubted proofs of their utility have been given. But mankind can with difficulty be brought to lay aside established practices, or to adopt new ones. And perhaps we have more reason to be surprised,

that a practice, however rational, which was proposed about forty years ago, should in that time have been adopted in so many places, than that it has not universally prevailed It is only by degrees that the great body of mankind can be led into new practices, however salutary their tendency It is now nearly eighty years since inoculation was introduced into Europe and America; and it is so far from being general at present, that it will require one or two centuries to render it so.

In the year 1745, Franklin published an account of his new-invented Pennsylvania fire-places, in which he minutely and accurately states the advantages of different kinds of fire-places; and endeavours to show that the one which he describes is to be preferred to any other. This contrivance has given rise to the open stoves now in general use, which, however, differ from it in construction, particularly in not having an air-box at the back, through which a constant supply of air, warmed in its passage, is thrown into the room. The advantages of this are, that as a stream of warm air is continually flowing into the room, less fuel is necessary to preserve a proper temperature, and the room may be so tightened as that no air may enter through cracks—the consequence of which are colds, tooth-aches, &c.

Although philosophy was a principal object of Franklin's pursuit for several years, he confined himself not to this. In the year 1747, he became a member of the general assembly of Pennsylvania, as a burgess for the city of Philadelphia. Warm disputes subsisted at this time between the assembly and the proprietaries; each contending for what they conceived to be their just rights. Franklin, a friend to the rights of man from his infancy, soon distinguished himself as a steady opponent of the unjust schemes of the proprietaries. He was soon looked up to as the head of the opposition; and to him have been attributed

many of the spirited replies of the assembly, to the messages of the governors. His influence in the body was very great. This arose not from any superior powers of eloquence; he spoke but seldom, and he never was known to make any thing like an elaborate harangue. His speeches often consisted of a single sentence, or of a well-told story, the moral of which was always obviously to the point. He never attempted the flowery fields of oratory. His manner was plain and mild. His style in speaking was, like that of his writings, simple, unadorned, and remarkably concise. With this plain manner, and his penetrating and solid judgment, he was able to confound the most eloquent and subtle of his adversaries, to confirm the opinions of his friends, and to make converts of the unprejudiced who had opposed him. With a single observation, he has rendered of no avail an elegant and lengthy discourse, and determined the fate of a question of importance.

But he was not contented with thus supporting the rights of the people. He wished to render them permanently secure, which can only be done by making their value properly known; and this must depend upon increasing and extending information to every class of men. We have already seen that he was the founder of the public library, which contributed greatly towards improving the minds of the citizens. But this was not sufficient. The schools then subsisting were in general of little utility. The teachers were men ill qualified for the important duty which they had undertaken; and, after all, nothing more could be obtained than the rudiments of a common English education. Franklin drew up a plan of an academy, to be erected in the city of Philadelphia, suited to "the state of an infant country;" but in this, as in all his plans, he confined not his views to the present time only. He looked forward to the period when an institution on an enlarged plan would become necessary. With this view, he considered his aca-

delay as "a foundation for posterity to erect a seminary of learning more extensive, and suitable to future circumstances." In pursuance of this plan, the constitutions were drawn up and signed on the 13th of November, 1749. In these, twenty-four of the most respectable citizens of Philadelphia were named as trustees. In the choice of these, and in the formation of his plan, Franklin is said to have consulted chiefly with Thomas Hopkinson, Esq. the Rev. Richard Peters, then secretary of the province, Tench Francis, Esq. attorney-general, and Dr. Phineas Bond.

The following article shews a spirit of benevolence worthy of imitation; and, for the honour of our city, we hope that it continues to be in force.

"In case of the disability of the *rector*, or any master (established on the foundation by receiving a certain salary) through sickness, or any other natural infirmity, whereby he may be reduced to poverty, the trustees shall have power to contribute to his support, in proportion to his distress and merit, and the stock in their hands."

The last clause of the fundamental rules is expressed in language so tender and benevolent, so truly parental, that it will do everlasting honour to the hearts and heads of the founders.

"It is hoped and expected that the trustees will make it their pleasure, and in some degree their business, to visit the academy often; to encourage and countenance the youth, to countenance and assist the masters, and, by all means in their power, advance the usefulness and reputation of the design; that they will look on the students as, in some measure, their own children, treat them with familiarity and affection; and when they have behaved well, gone through their studies, and are to enter the world, they shall zealously unite, and make all the interest that can be made to promote and establish them, whether in business, offices, marriages, or any other thing for their advantage, in prefer-

ence to all other persons whatsoever, even of equal merit."

The constitutions being signed and made public, with the names of the gentlemen proposing themselves as trustees and founders, the design was so well approved of by the public-spirited citizens of Philadelphia, that the sum of eight hundred pounds per annum, for five years, was in the course of a few weeks subscribed for carrying it into execution; and in the beginning of January following (viz. 1750) three of the schools were opened, namely, the Latin and Greek schools, the Mathematical school, and the English school. In pursuance of an article in the original plan, a school for educating sixty boys and thirty girls (in the charter since called the Charitable School) was opened; and amidst all the difficulties with which the trustees have struggled in respect to their funds, has still been continued full for the space of forty years; so that allowing three years education for each boy and girl admitted into it, which is the general rule, at least twelve hundred children have received in it the chief part of their education, who might otherwise, in a great measure, have been left without the means of instruction. And many of those who have been thus educated, are now to be found among the most useful and reputable citizens of this state.

The institution, thus successfully begun, continued daily to flourish, to the great satisfaction of Dr. Franklin; who, notwithstanding the multiplicity of his other engagements and pursuits, at that busy stage of his life, was a constant attendant at the monthly visitations and examinations of the schools, and made it his peculiar study, by means of his extensive correspondence abroad, to advance the reputation of the seminary, and to draw students and scholars to it from different parts of America and the West Indies. Through the interposition of his benevolent and learned friend, Peter Collinson, of London, upon the application

of the trustees, a charter of incorporation, dated July 18, 1753, was obtained from the honourable proprietors of Pennsylvania, Thomas Penn and Richard Penn, Esqrs. accompanied with a liberal benefaction of five hundred pounds sterling; and Dr. Franklin now began in good earnest to please himself with the hopes of a speedy accomplishment of his original design, viz. the establishment of a perfect institution, upon the plan of the European colleges and universities; for which his academy was intended as a nursery or foundation. To elucidate this fact is a matter of considerable importance in respect to the memory and character of Dr. Franklin as a philosopher, and as the friend and patron of learning and science; for, notwithstanding what is expressly declared by him in the preamble to the constitutions, viz. that the academy was begun for "teaching the Latin and Greek languages, with all useful branches of the arts and sciences, suitable to the state of an infant country, and laying a foundation for posterity to erect a seminary of learning more extensive, and suitable to their future circumstances;" yet it has been suggested of late, as upon Dr. Franklin's authority, that the Latin and Greek, or the dead languages, are an incumbrance upon a scheme of liberal education, and that the engrafting or founding a college, or more extensive seminary, upon his academy, was without his approbation or agency, and gave him discontent. If the reverse of this does not already appear from what has been quoted above, the following letters will put the matter beyond dispute. They were written by him to a gentleman, who had at that time published the idea of a college, suited to the circumstances of a young country (meaning New York), a copy of which having been sent to Dr. Franklin for his opinion, gave rise to that correspondence which terminated about a year afterwards, in erecting the college upon the foundation of the academy, and establishing that gentleman at the head of

both, where he still continues, after a period of thirty-six years, to preside with distinguished reputation.

From these letters also, the state of the academy, at that time, will be seen.

“*Philad. April 19th, 1753.*

“SIR,

“I received your favour of the 11th instant, with your new\* piece on *Education*, which I shall carefully peruse, and give you my sentiments of it, as you desire, by next post.

“I believe the young gentlemen, your pupils, may be entertained and instructed here, in mathematics and philosophy, to satisfaction. Mr. Alison (who was educated at Glasgow) has been long accustomed to teach the latter, and Mr. Grew the former; and I think their pupils make great progress. Mr. Alison has the care of the Latin and Greek schools, but as he has now three good assistants, he can very well afford some hours every day for the instruction of those who are engaged in higher studies. The mathematical school is pretty well furnished with instruments. The English library is a good one; and we have belonging to it a middling apparatus for experimental philosophy, and propose speedily to complete it. The Loganian library, one of the best collections in America, will shortly be opened; so that neither books nor instruments will be wanting; and as we are determined always to give good salaries, we have reason to believe we may have always an opportunity of choosing good masters; upon which indeed the success of the whole depends. We are obliged to you for your kind offers in this respect, and when you

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\* A general idea of the college of Miranda.

are settled in England, we may occasionally make use of your friendship and judgement.—

“ If it suits your conveniency to visit Philadelphia before your return to Europe, I shall be extremely glad to see and converse with you here, as well as to correspond with you after your settlement in England; for an acquaintance and communication with men of learning, virtue, and public spirit, is one of my greatest enjoyments.

“ I do not know whether you ever happened to see the first proposals I made for erecting this academy. I send them inclosed. They had (however imperfect) the desired success, being followed by a subscription of four thousand pounds, towards carrying them into execution. And as we are fond of receiving advice, and are daily improving by experience, I am in hopes we shall, in a few years, see a perfect institution.

“ I am, very respectfully, &c.

“ B. FRANKLIN.

“ *Mr. W. Smith, Long Island,*”

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“ *Philad. May 3d, 1753.*

“ Sir,

“ Mr. Peters has just now been with me, and we have compared notes on your new piece. We find nothing in the scheme of education, however excellent, but what is, in our opinion, very practicable. The great difficulty will be to find the Aratus,\* and other suitable persons, to

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\* The name given to the principal or head of the ideal college, the system of education in which hath nevertheless been nearly realized, or followed as a model, in the college and academy of Philadelphia, and some other American seminaries, for many years past.

carry it into execution ; but such may be had if proper encouragement be given. We have both received great pleasure in the perusal of it. For my part, I know not when I have read a piece that has more affected me—so noble and just are the sentiments, so warm and animated the language ; yet as censure from your friends may be of more use, as well as more agreeable to you than praise, I ought to mention, that I wish you had omitted not only the quotation from the Review, which you are now justly dissatisfied with, but those expressions of resentment against your adversaries, in pages 65 and 79. In such cases, the noblest victory is obtained by neglect, and by shining on.

“ Mr. Allen has been out of town these ten days ; but before he went he directed me to procure him six copies of your piece. Mr. Peters has taken ten. He proposed to have written to you ; but omits it, as he expects so soon to have the pleasure of seeing you here. He desires me to present his affectionate compliments to you, and to assure you that you will be very welcome to him, I shall only say, that you may depend on my doing all in my power to make your visit to Philadelphia agreeable to you.

I am, &c.

“ *Mr. Smith.*

“ **B. FRANKLIN.**

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“ *Philad. Nov. 27th, 1753.*

“ Dear Sir,

“ Having written you fully, *via* Bristol, I have now little to add. Matters relating to the academy remain *in statu quo*. The trustees would be glad to see a rector established there, but they dread entering into new engagements till they are got out of debt ; and I have not yet got them wholly over in my opinion, that a good professor, or teacher of the higher branches of learning, would

draw so many scholars as to pay great part, if not the whole of his salary. Thus, unless the proprietors (of the province) shall think fit to put the finishing hand to our institution, it must, I fear, wait some few years longer before it can arrive at that state of perfection, which to me it seems now capable of; and all the pleasure I promised myself in seeing you settled among us, vanishes into smoke.

"But good Mr. Collinson writes me word, that no endeavours of his shall be wanting; and he hopes, with the archbishop's assistance, to be able to prevail with our proprietors." I pray God grant them success.

"My son presents his affectionate regards, with, dear Sir,

"Yours, &c.

"B. FRANKLIN."

"P. S. I have not been favoured with a line from you since your arrival in England."

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"*Philad. April 18th, 1754.*

"DEAR SIR,

"I have had but one letter from you since your arrival in England, which was but a short one, *via* Boston, dated October 18, acquainting me that you had written largely by Captain Davis.—Davis was lost, and with him your letters, to my great disappointment.—Mesnard and Gibbon have since arrived here, and I hear nothing from you. My

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\* Upon the application of Archbishop Herring and P. Collinson, Esq. at Dr. Franklin's request, (aided by the letters of Mr. Allen and Mr. Peters,) the Hon. Thomas Penn, Esq. subscribed an annual sum, and afterwards gave at least 5000l. to the founding or engraving the college upon the academy

comfort is, an imagination that you only omit writing because you are coming, and propose to tell me every thing *viva voce*. So not knowing whether this letter will reach you, and hoping either to see or hear from you by the Myrtilla, Captain Budden's ship, which is daily expected, I only add, that I am, with great esteem and affection,

"Your's, &c.

"*Mr. Smith.*

B. FRANKLIN."

About a month after the date of this last letter, the gentleman to whom it was addressed arrived in Philadelphia, and was immediately placed at the head of the seminary; whereby Dr. Franklin and the other trustees were enabled to prosecute their plan, for perfecting the institution, and opening the college upon the large and liberal foundation on which it now stands; for which purpose they obtained their additional charter, dated May 27th, 1755.

Thus far we thought it proper to exhibit in one view Dr. Franklin's services in the foundation and establishment of this seminary. He soon afterwards embarked for England, in the public service of his country; and having been generally employed abroad, in the like service, for the greatest part of the remainder of his life, (as will appear in our subsequent account of the same) he had but few opportunities of taking any further active part in the affairs of the seminary, until his final return in the year 1785, when he found its charters violated, and his ancient colleagues, the original founders, deprived of their trust, by an act of the legislature; and although his own name had been inserted amongst the new trustees, yet he declined to take his seat among them, or any concern in the management of their affairs, till the institution was restored by law to its original owners. He then assembled his old colleagues at his own house, and being chosen their president, all their future meetings were, at his request, held there,

till within a few months of his death, when with reluctance, and at their desire, lest he might be too much injured by his attention to their business, he suffered them to meet at the college.

Franklin not only gave birth to many useful institutions himself, but he was also instrumental in promoting those which had originated with other men. About the year 1752, an eminent physician of this city, Dr. Bond, considering the deplorable state of the poor, when visited with disease, conceived the idea of establishing an hospital. Notwithstanding very great exertions on his part, he was able to interest few people so far in his benevolent plan, as to obtain subscriptions from them. Unwilling that his scheme should prove abortive, he sought the aid of Franklin, who readily engaged in the business, both by using his influence with his friends, and by stating the advantageous influence of the proposed institution in his paper. These efforts were attended with success. Considerable sums were subscribed; but they were still short of what was necessary. Franklin now made another exertion. He applied to the assembly; and, after some opposition, obtained leave to bring in a bill, specifying, that as soon as two thousand pounds were subscribed, the same sum should be drawn from the treasury by the speaker's warrant, to be applied to the purposes of the institution. The opposition, as the sum was granted upon a contingency which they supposed would never take place, were silent, and the bill passed. The friends of the plan now redoubled their efforts, to obtain subscriptions to the amount stated in the bill, and were soon successful. This was the foundation of the Pennsylvanian Hospital, which, with the Bettering-house, and Dispensary, bears ample testimony of the humanity of the citizens of Philadelphia.

Dr. Franklin had conducted himself so well in the office of post-master, and had shown himself to be so well ac-

qaunted with the business of that department, that it was thought expedient to raise him to a more dignified station. In 1758, he was appointed deputy post-master general for the British colonies. The profits arising from the postage of letters formed no inconsiderable part of the revenue, which the crown of Great Britain derived from these colonies. In the hands of Franklin, it is said, that the post-office in America yielded annually thrice as much as that of Ireland.

The American colonies were much exposed to depredations on their frontiers, by the Indians; and more particularly whenever a war took place between France and England. The colonies, individually, were either too weak to take efficient measures for their own defence, or they were unwilling to take upon themselves the whole burden of erecting forts and maintaining garrisons, whilst their neighbours, who partook equally with themselves of the advantages, contributed nothing to the expense. Sometimes also the disputes, which subsisted between the governors and assemblies, prevented the adoption of means of defence; as we have seen was the case in Pennsylvania in 1745. To devise a plan of union between the colonies, to regulate this and other matters, appeared a desirable object. To accomplish this, in the year 1754, commissioners from New Hampshire, Massachussets, Rhode Island, New Jersey, Pennsylvania, and Maryland, met at Albany. Dr. Franklin attended here, as a commissioner from Pennsylvania, and produced a plan, which, from the place of meeting, has been usually termed, "The Albany plan of Union." This proposed, that application should be made for an act of parliament, to establish in the colonies a general government, to be administered by a president-general, appointed by the crown, and by a grand council, consisting of members chosen by the representatives of the different colonies; their number to be in direct proportion

to the sums paid by each colony into the general treasury, with this restriction, that no colony should have more than seven, nor less than two representatives. The whole executive authority was committed to the president-general. The power of legislation was lodged in the grand council and president-general jointly; his consent being made necessary to passing a bill into a law. The power vested in the president and council was, to declare war and peace, and to conclude treaties with the Indian nations; to regulate trade with, and to make purchases of vacant lands from them, either in the name of the crown, or of the union; to settle new colonies, to make laws for governing these until they should be erected into separate governments; and to raise troops, build forts, and fit out armed vessels, and to use other means for the general defence; and, to effect these things, a power was given to make laws, laying such duties, imposts, or taxes, as they should find necessary, and as would be least burdensome to the people. All laws were to be sent to England for the king's approbation; and unless disapproved of within three years, were to remain in force. All officers in the land or sea service were to be nominated by the president-general, and approved of by the general council; civil officers were to be nominated by the council, and approved of by the president. Such are the outlines of the plan proposed for the consideration of the congress, by Dr. Franklin. After several days' discussion, it was unanimously agreed to by the commissioners, a copy transmitted to each assembly, and one to the king's council. The fate of it was singular. It was disapproved of by the ministry of Great Britain, because it gave too much power to the representatives of the people; and it was rejected by every assembly, as giving to the president-general, the representative of the crown, an influence greater than appeared to them proper, in a plan of government intended for freemen. Perhaps this rejec-

tion, on both sides, is the strongest proof that could be adduced of the excellence of it, as suited to the situation of America and Great Britain at that time. It appears to have steered exactly in the middle between the opposite interests of both.

Whether the adoption of this plan would have prevented the separation of America from Great Britain, is a question which might afford much room for speculation. It may be said, that, by enabling the colonies to defend themselves, it would have removed the pretext upon which the stamp-act, tea-act, and other acts of the British parliament, were passed; which excited a spirit of opposition, and laid the foundation for the separation of the two countries. But, on the other hand, it must be admitted, that the restriction laid by Great Britain upon our commerce, obliging us to sell our produce to her citizens only, and to take from them various articles, of which, as our manufactures were discouraged, we stood in need, at a price greater than that for which they could have been obtained from other nations, must inevitably produce dissatisfaction, even though no duties were imposed by the parliament; a circumstance which might still have taken place. Besides, as the president-general was to be appointed by the crown, he must, of necessity, be devoted to its views, and would, therefore, refuse his assent to any laws, however salutary to the community, which had the most remote tendency to injure the interests of his sovereign. Even should they receive his assent, the approbation of the king was to be necessary; who would indubitably, in every instance, prefer the advantage of his home dominions to that of his colonies. Hence would ensue perpetual disagreements between the council and the president-general, and thus, between the people of America and the crown of Great Britain. While the colonies continued weak, they would be obliged to submit, and as soon as they acquired strength

they would become more urgent in their demands, until, at length, they would shake off the yoke, and declare themselves independent.

Whilst the French were in possession of Canada, their trade with the natives extended very far ; even to the back of the British settlements. They were disposed, from time to time, to establish posts within the territory, which the English claimed as their own. Independent of the injury to the fur trade, which was considerable, the colonies suffered this further inconvenience, that the Indians were frequently instigated to commit depredations on their frontiers. In the year 1753, encroachments were made upon the boundaries of Virginia. Remonstrances had no effect. In the ensuing year, a body of men were sent out under the command of Mr. Washington, who, though a very young man, had, by his conduct in the preceding year, shewn himself worthy of such an important trust. Whilst marching to take possession of the post at the junction of the Allegany and Monongahela, he was informed that the French had already erected a fort there. A detachment of their men marched against him. He fortified himself as strongly as time and circumstances would admit. A superiority of numbers soon obliged him to surrender *Fort Necessity*. He obtained honourable terms for himself and men, and returned to Virginia. The government of Great Britain now thought it necessary to interfere. In the year 1755, General Braddock, with some regiments of regular troops, and provincial levies, was sent to dispossess the French of the posts upon which they had seized. After the men were all ready, a difficulty occurred, which had nearly prevented the expedition. This was the want of waggons. Franklin now stepped forward, and with the assistance of his son, in a little time procured a hundred and fifty. Braddock unfortunately fell into an ambuscade, and perished, with a number of his men. Washington, who

had accompanied him as an aid-de-camp, and had warned him, in vain, of his danger, now displayed great military talents in effecting a retreat of the remains of the army, and in forming a junction with the rear, under Colonel Dunbar, upon whom the chief command now devolved. With some difficulty they brought their little body to a place of safety; but they found it necessary to destroy their waggons and baggage, to prevent them falling into the hands of the enemy. For the waggons which he had furnished, Franklin had given bonds to a large amount. The owners declared their intention of obliging him to make a restitution of their property. Had they put their threats in execution, ruin must inevitably have been the consequence. Governor Shirley, finding that he had incurred these debts for the service of government, made arrangements to have them discharged, and released Franklin from his disagreeable situation.

The alarm spread through the colonies after the defeat of Braddock, was very great. Preparations to arm were every where made. In Pennsylvania, the prevalence of the Quaker interest prevented the adoption of any system of defence, which would compel the citizens to bear arms. Franklin introduced into the assembly a bill for organizing a militia, by which every man was allowed to take arms or not, as to him should appear fit. The Quakers, being thus left at liberty, suffered the bill to pass; for although their principles will not suffer them to fight, they had no objection to their neighbours fighting for them. In consequence of this act a very respectable militia was formed. The sense of impending danger infused a military spirit in all whose religious tenets were not opposed to war. Franklin was appointed colonel of a regiment in Philadelphia, which consisted of 1200 men.

The north-western frontier being invaded by the enemy, it became necessary to adopt measures for defence.

Franklin was directed by the governor to take charge of this. A power of raising men, and of appointing officers to command them, was vested in him. He soon levied a body of troops, with which he repaired to the place at which their presence was necessary. Here he built a fort, and placed a garrison in such a posture of defence, as would enable them to withstand the inroads, to which the inhabitants had previously been exposed. He remained here for some time, in order the more completely to discharge the trust committed to him. Some business of importance at length rendered his presence necessary in the assembly, and he returned to Philadelphia.

The defence of her colonies was a great expense to Great Britain. The most effectual mode of lessening this was, to put arms into the hands of the inhabitants, and to teach them their use. But England wished not that the Americans should become acquainted with their own strength. She was apprehensive, that, as soon as this period arrived, they would no longer submit to that monopoly of their trade, which to them was highly injurious, but extremely advantageous to the mother-country. In comparison with the profits of this, the expense of maintaining armies and fleets to defend them was trifling. She fought to keep them dependent upon her for protection; the best plan which could be devised for retaining them in peaceable subjection. The least appearance of a military spirit was therefore to be guarded against, and, although a war then raged, the act for organizing a militia was disapproved of by the ministry. The regiments which had been formed under it were disbanded, and the defence of the province entrusted to regular troops.

The disputes between the proprietaries and the people continued in full force, although a war was raging on the frontiers. Not even the sense of danger was sufficient to reconcile, for ever so short a time, their jarring interests.

The assembly still insisted upon the justice of taxing the proprietary estates, but the governors constantly refused their assent to this measure, without which no bill could pass into a law. Enraged at the obstinacy, and what they conceived to be unjust proceedings of their opponents, the assembly at length determined to apply to the mother-country for relief. A petition was addressed to the king, in council, stating the inconveniences under which the inhabitants laboured, from the attention of the proprietaries to their private interests, to the neglect of the general welfare of the community, and praying for redress. Franklin was appointed to present this address, as agent for the province of Pennsylvania, and departed from America in June 1757. In conformity to the instructions which he had received from the legislature, he held a conference with the proprietaries, who then resided in England, and endeavoured to prevail upon them to give up the long contested point. Finding that they would hearken to no terms of accommodation, he laid his petition before the council. During this time Governor Denny assented to a law imposing a tax, in which no discrimination was made in favour of the estates of the Penn family. They, alarmed at this intelligence, and Franklin's exertions, used their utmost endeavours to prevent the royal sanction being given to this law, which they represented as highly iniquitous, designed to throw the burden of supporting government upon them, and calculated to produce the most ruinous consequences to them and their posterity. The cause was amply discussed before the privy council. The Penns found here some strenuous advocates; nor were there wanting some who warmly espoused the side of the people. After some time spent in debate, a proposal was made, that Franklin should solemnly engage, that the assessment of the tax should be so made, as that the proprietary estates should pay no more than a due proportion. This he agreed

to perform ; the Penn family withdrew their opposition, and tranquillity was thus once more restored to the province.

The mode in which this dispute was terminated is a striking proof of the high opinion entertained of Franklin's integrity and honour, even by those who considered him as inimical to their views. Nor was their confidence ill-founded. The assessment was made upon the strictest principles of equity ; and the proprietary estates bore only a proportionable share of the expences of supporting government.

After the completion of this important business, Franklin remained at the court of Great Britain, as agent for the province of Pennsylvania. The extensive knowledge which he possessed of the situation of the colonies, and the regard which he always manifested for their interests, occasioned his appointment to the same office by the colonies of Massachussets, Maryland, and Georgia. His conduct, in this situation, was such as rendered him still more dear to his countrymen.

He had now an opportunity of indulging in the society of those friends whom his merits had procured him while at a distance. The regard which they had entertained for him was rather increased by a personal acquaintance. The opposition which had been made to his discoveries in philosophy gradually ceased, and the rewards of literary merit were abundantly conferred upon him. The Royal Society of London, which had at first refused his performances admission into its transactions, now thought it an honour to rank him amongst its fellows. Other societies of Europe were equally ambitious of calling him a member. The university of St. Andrew's, in Scotland, conferred upon him the degree of Doctor of Laws. Its example was followed by the universities of Edinburgh and Oxford. His correspondence was sought for by the most eminent philosophers of Europe. His letters to these abound with

true science, delivered in a most simple unadorned manner.

The province of Canada was at this time in the possession of the French, who had originally settled it. The trade with the Indians, for which its situation was very convenient, was exceedingly lucrative. The French traders here found a market for their commodities, and received in return large quantities of furs, which they disposed of at a high price in Europe. Whilst the possession of this country was highly advantageous to France, it was a grievous inconvenience to the inhabitants of the British colonies. The Indians were almost generally desirous to cultivate the friendship of the French, by whom they were abundantly supplied with arms and ammunition. Whenever a war happened, the Indians were ready to fall upon the frontiers; and this they frequently did, even when Great Britain and France were at peace. From these considerations, it appeared to be the interest of Great Britain to gain the possession of Canada. But the importance of such an acquisition was not well understood in England. Franklin about this time published his Canada pamphlet, in which he in a forcible manner pointed out the advantages which would result from the conquest of this province.

An expedition against it was planned, and the command given to General Wolfe. His success is well known. At the treaty in 1763, France ceded Canada to Great Britain, and by her cession of Louisiana, at the same time, relinquished all her possessions on the continent of America.

Although Dr. Franklin was now principally occupied with political pursuits, he found time for philosophical studies. He extended his researches in electricity, and made a variety of experiments, particularly on the tourmalin. The singular properties which this stone possesses of being electrified on one side positively, and on the other negatively, by heat alone, without friction, had been but lately observed.

Some experiments on the cold produced by evaporation, made by Dr. Cullen, had been communicated to Dr. Franklin, by professor Simpson, of Glasgow. These he repeated, and found, that, by the evaporation of ether in the exhausted receiver of an air-pump, so great a degree of cold was produced in a summer's day, that water was converted into ice. This discovery he applied to the solution of a number of phenomena, particularly a singular fact, which philosophers had endeavoured in vain to account for, viz. that the temperature of the human body, when in health, never exceeds 96 degrees of Fahrenheit's thermometer, though the atmosphere which surrounds it may be heated to a much greater degree. This he attributed to the increased perspiration, and consequent evaporation, produced by the heat.

In a letter to Mr. Small, of London, dated in May 1760, Dr. Franklin makes a number of observations, tending to show that, in North America, north-east storms begin in the south-west parts. It appears, from actual observations, that a north-east storm, which extended a considerable distance, commenced at Philadelphia near four hours before it was felt at Boston. He endeavoured to account for this, by supposing that, from heat, some rarefaction takes place about the gulf of Mexico, that the air further north rushes in, and is succeeded by the cooler and denser air still farther north, and that thus a continual current is at length produced.

The tone produced by rubbing the brim of a drinking-glass with a wet finger, had been generally known. A Mr. Puckeridge, an Irishman, by placing on a table a number of glasses of different sizes, and tuning them by partly filling them with water, endeavoured to form an instrument capable of playing tunes. He was prevented by an untimely end, from bringing his invention to any degree of perfection. After his death some improvements were made upon his

plan. The sweetness of the tones induced Dr. Franklin to make a variety of experiments; and he at length formed that elegant instrument which he has called the *Armonica*.

In the summer of 1762, he returned to America. On his passage he observed the singular effect produced by the agitation of a vessel, containing oil, floating on water. The surface of the oil remains smooth and undisturbed, whilst the water is agitated with the utmost commotion. No satisfactory explanation of this appearance has, we believe, ever been given.

Dr. Franklin received the thanks of the assembly of Pennsylvania, "as well for the faithful discharge of his duty to that province in particular, as for the many and important services done to America in general, during his residence in Great Britain." A compensation of 5000<sup>l.</sup> Pennsylvania currency, was also decreed him for his services during six years.

During his absence he had been annually elected member of the assembly. On his return to Pennsylvania he again took his seat in this body, and continued a steady defender of the liberties of the people.

In December 1762, a circumstance which caused great alarm in the province took place. A number of Indians had resided in the county of Lancaster, and conducted themselves uniformly as friends to the white inhabitants. Repeated depredations on the frontiers had exasperated the inhabitants to such a degree, that they determined on revenge upon every Indian. A number of persons, amounting to about 120, principally inhabitants of Donegal and Peckstang or Paxton township, in the county of York, assembled; and, mounted on horseback, proceeded to the settlement of these harmless and defenceless Indians, whose number had now been reduced to about twenty. The Indians had received intelligence of the attack which was intended against them, but disbelieved it

Considering the white people as their friends, they apprehended no danger from them. When the party arrived at the Indian settlement, they found only some women and children, and a few old men, the rest being absent at work. They murdered all whom they found, and amongst others the chief Shaheas, who had been always distinguished for his friendship to the whites. This bloody deed excited much indignation in the well-disposed part of the community.

The remainder of these unfortunate Indians, who by absence had escaped the massacre, were conducted to Lancaster, and lodged in the gaol as a place of security. The governor issued a proclamation expressing the strongest disapprobation of the action, offering a reward for the discovery of the perpetrators of the deed, and prohibiting all injuries to the peaceable Indians in future. But, notwithstanding this, a party of the same men shortly after marched to Lancaster, broke open the gaol, and inhumanly butchered the innocent Indians, who had been placed there for security. Another proclamation was issued, but it had no effect. A detachment marched down to Philadelphia, for the express purpose of murdering some friendly Indians, who had been removed to the city for safety. A number of the citizens armed in their defence. The Quakers, whose principles are opposed to fighting, even in their own defence, were most active upon this occasion. The rioters came to German-town. The governor fled for safety to the house of Dr. Franklin, who, with some others, advanced to meet the Paxton boys, as they were called, and had influence enough to prevail upon them to relinquish their undertaking, and return to their homes.

The disputes between the proprietaries and the assembly, which, for a time, had subsided, were again revived. The proprietaries were dissatisfied with the concessions made in favour of the people, and made great struggles to recover

the privilege of exempting their estates from taxation, which they had been induced to give up.

In 1763, the assembly passed a militia-bill, to which the governor refused to give his assent, unless the assembly would agree to certain amendments which he proposed. These consisted in increasing the fines, and in some cases, substituting death for fines. He wished too, that the officers should be appointed altogether by himself, and not be nominated by the people, as the bill had proposed. These amendments the assembly considered as inconsistent with the spirit of liberty. They would not adopt them—the govenor was obstinate, and the bill was lost.

These, and various other circumstances, increased the uneasiness which subsisted between the proprietaries and the assembly, to such a degree, that, in 1764, a petition to the king was agreed to by the house, praying an alteration from a *proprietary* to a *regal* government. Great opposition was made to this measure, not only in the house, but in the publick prints. A speech of Mr. Dickenson on the subject was published, with a preface by Dr. Smith, in which great pains were taken to show the impropriety and impolicy of this proceeding. A speech of Mr. Gallo-way, in reply to Mr. Dickenson, was published, accompanied with a preface by Dr. Franklin, in which he ably opposed the principles laid down in the preface to Mr. Dickenson's speech. This application to the throne produced no effect. The proprietary government was still continued.

At the election of a new assembly, in the fall of 1764, the friends of the proprietaries made great exertions to exclude those of the adverse party; and they obtained a small majority in the city of Philadelphia. Franklin now lost his seat in the house, which he had held for fourteen years. On the meeting of the assembly, it appeared there was still a decided majority of Franklin's friends. He was immediately appointed provincial agent, to the great cha-

grin of his enemies, who made a solemn protest against his appointment, which was refused admission upon the minutes, as being unprecedented. It was, however, published in the papers, and produced a spirited reply from him, just before his departure for England.

The disturbances produced in America by Mr. Grenville's stamp-act, and the opposition made to it, are well known. Under the Marquis of Rockingham's administration, it appeared expedient to endeavour to calm the minds of the colonists; and the repeal of the odious tax was contemplated. Amongst other means of collecting information on the disposition of the people to submit to it, Dr. Franklin was called to the bar of the house of commons. The examination which he underwent was published, and contains a striking account of the extent and accuracy of his information, and the facility with which he communicated his sentiments. He represented facts in so strong a point of view, that the inexpediency of the act must have appeared clear to every unprejudiced mind. The act, after some opposition, was repealed, about a year after it was enacted, and before it had ever been carried into execution.

In the year 1766, he made a visit to Holland and Germany, and received the greatest marks of attention from men of science. In his passage through Holland he learned from the watermen the effect which a diminution of the quantity of water in canals has, in impeding the progress of boats. Upon his return to England, he was led to make a number of experiments, all of which tended to confirm the observation. These, with an explanation of the phenomenon, he communicated in a letter to his friend, Sir John Pringle, which will be found among his philosophical pieces.

In the following year he travelled into France, where he met a no less favourable reception than he had experi-

enced in Germany. He was introduced to a number of literary characters, and to the king, Louis XV.

Several letters written by Hutchinson, Oliver, and others, to persons in eminent stations in Great Britain, came into the hands of Dr. Franklin. These contained the most violent invectives against the leading characters of the state of Massachusetts, and strenuously advised the prosecution of vigorous measures, to compel the people to obedience to the measures of the ministry. These he transmitted to the legislature, by whom they were published. Attested copies of them were sent to Great Britain, with an address, praying the king to discharge from office persons who had rendered themselves so obnoxious to the people, and who had shown themselves so unfriendly to their interests. The publication of these letters produced a duel between Mr. Whately and Mr. Temple, each of whom was suspected of having been instrumental in procuring them. To prevent any farther disputes on this subject, Dr. Franklin, in one of the public papers, declared that he had sent them to America, but would give no information concerning the manner in which he had obtained them—nor was this ever discovered.

Shortly after, the petition of the Massachusetts assembly was taken up for examination, before the privy council. Dr. Franklin attended, as agent for the assembly; and here a torrent of the most violent and unwarranted abuse was poured upon him by the solicitor-general, Wedderburne, who was engaged as counsel for Oliver and Hutchinson. The petition was declared to be scandalous and vexatious, and the prayer of it refused.

Although the parliament of Great Britain had repealed the stamp-act, it was only upon the principle of expediency. They still insisted upon their right to tax the colonies; and, at the same time that the stamp-act was repealed, an act was passed, declaring the right of parliament to bind the

colonies in all cases whatsoever. This language was used even by the most strenuous opposers of the stamp-act; and, amongst others, by Mr. Pitt. This right was never recognized by the colonists; but, as they flattered themselves that it would not be exercised, they were not very active in remonstrating against it. Had this pretended right been suffered to remain dormant, the colonists would cheerfully have furnished their quota of supplies, in the mode to which they had been accustomed; that is, by acts of their own assemblies, in consequence of requisitions from the secretary of state. If this practice had been pursued, such was the disposition of the colonies towards their mother-country, that, notwithstanding the disadvantages under which they laboured, from restraints upon their trade, calculated solely for the benefit of the commercial and manufacturing interests of Great Britain, a separation of the two countries might have been a far distant event. The Americans, from their earliest infancy, were taught to venerate a people from whom they were descended; whose language, laws, and manners, were the same as their own. They looked up to them as models of perfection; and, in their prejudiced minds, the most enlightened nations of Europe were considered as almost barbarians, in comparison with Englishmen. The name of an Englishman conveyed to an American the idea of every thing good and great. Such sentiments instilled into them in early life, what but a repetition of unjust treatment could have induced them to entertain the most distant thought of separation! The duties on glass, paper, leather, painters' colours, tea, &c. the disfranchisement of some of the colonies; the obstruction to the measures of the legislature in others, by the king's governors; the contumacious treatment of their humble remonstrances, stating their grievances, and praying a redress of them, and other violent and oppressive measures, at length excited an ar-

dent spirit of opposition. Instead of endeavouring to allay this by a more lenient conduct, the ministry seemed resolutely bent upon reducing the colonies to the most slavish obedience to their decrees. But this only tended to aggravate. Vain were all the efforts made use of to prevail upon them to lay aside their designs, to convince them of the impossibility of carrying them into effect, and of the mischievous consequences which must ensue from a continuance of the attempts. They persevered, with a degree of inflexibility scarcely paralleled.

The advantages which Great Britain derived from her colonies were so great, that nothing but a degree of infatuation, little short of madness, could have produced a continuance of measures calculated to keep up a spirit of uneasiness, which might occasion the slightest wish for a separation. When we consider the great improvements in the science of government, the general diffusion of the principles of liberty amongst the people of Europe, the effects which these have already produced in France, and the probable consequences which will result from them elsewhere, all of which are the offspring of the American revolution, it cannot but appear strange, that events of so great moment to the happiness of mankind, should have been ultimately occasioned by the wickedness or ignorance of a British minister.

Dr. Franklin left nothing untried to prevail upon the ministry to consent to a change of measures. In private conversations, and in letters to persons in government, he continually expatiated upon the impolicy and injustice of their conduct towards America; and stated, that notwithstanding the attachment of the colonists to the mother-country, a repetition of ill treatment must ultimately alienate their affections. They listened not to his advice. They blindly persevered in their own schemes, and left to their colonists no alternative, but opposition, or uncondi-

tional submission. The latter accorded not with the principles of freedom, which they had been taught to rever.. To the former they were compelled, though reluctantly, to have recourse.

Dr. Franklin, finding all efforts to restore harmony between Great Britain and her colonies useless, returned to America in the year 1775 ; just after the commencement of hostilities. The day after his return he was elected by the legislature of Pennsylvania a delegate to congress. Not long after his election a committee was appointed, consisting of Mr. Lynch, Mr. Harrison, and himself, to visit the camp at Cambridge, and, in conjunction with the commander-in-chief, to endeavour to convince the troops, whose term of enlistment was about to expire, of the necessity of their continuing in the field, and persevering in the cause of their country.

In the fall of the same year he visited Canada, to endeavour to unite them in the common cause of liberty ; but they could not be prevailed upon to oppose the measures of the British government. M. Le Roy, in a letter annexed to Abbe Fauchet's eulogium on Dr. Franklin, states, that the ill success of this negotiation was occasioned, in a great degree, by religious animosities, which subsisted between the Canadians and their neighbours, some of whom had at different times burnt their chapels.

When Lord Howe came to America, in 1776, vested with power to treat with the colonies, a correspondence took place between him and Dr. Franklin, on the subject of a reconciliation. Dr. Franklin was afterwards appointed, together with John Adams, and Edward Rutledge, to wait upon the commissioners, in order to learn the extent of their powers. These were found to be only to grant pardons upon submission. Such terms which could not be accepted ; and the object of the commissioners was not obtained.

The momentous question of independence was shortly after brought into view, at a time when the fleets and armies, which were sent to enforce obedience, were truly formidable. With an army, numerous indeed, but ignorant of discipline, and entirely unskilled in the art of war, without money, without a fleet, without allies, and with nothing but the love of liberty to support them, the colonists determined to separate from a country, from which they had experienced a repetition of injury and insult. In this question, Dr. Franklin was decidedly in favour of the measures proposed, and had great influence in bringing others to his sentiments.

The public mind had been prepared for this event, by Mr. Paine's celebrated pamphlet, *Common Sense*. There is good reason to believe that Dr. Franklin had no considerable share, at least, in furnishing materials for this work.

In the convention which assembled at Philadelphia in 1776, for the purpose of establishing a new form of government for the state of Pennsylvania, Dr. Franklin was chosen president. The late constitution of this state, which was the result of their deliberations, may be considered as a digest of his principles of government. The single legislature, and the plural executive, seem to have been his favourite tenets.

In the latter end of 1776, Dr. Franklin was appointed to assist in the negotiation which had been set on foot by Silas Deane at the court of France. A conviction of the advantages of a commercial intercourse with America, and a desire of weakening the British empire by dismembering it, first induced the French court to listen to proposals of an alliance. But they shewed rather a reluctance to the measure, which, by Dr. Franklin's address, and particularly by the success of the American arms against General Burgoyne, was at length overcome; and in February 1778,

a treaty of alliance, offensive and defensive, was concluded; in consequence of which France became involved in the war with Great Britain.

Perhaps no person could have been found more capable of rendering essential services to the United States at the court of France, than Dr. Franklin. He was well known as a philosopher, and his character was held in the highest estimation. He was received with the greatest marks of respect by all the literary characters; and this respect was extended amongst all classes of men. His personal influence was hence very considerable. To the effects of this were added those of various performances which he published, tending to establish the credit and character of the United States. To his exertions in this way, may, in no small degree, be ascribed the success of the loans negotiated in Holland and France, which greatly contributed to bring the war to a conclusion.

The repeated ill success of their arms, and more particularly the capture of Cornwallis and his army, at length convinced the British nation of the impossibility of reducing the Americans to subjection. The trading interest particularly became clamorous for peace. The ministry were unable longer to oppose their wishes. Provisional articles of peace were agreed to, and signed at Paris on the 20th of November 1782, by Dr. Franklin, Mr. Adams, Mr. Jay, and Mr. Laurens, on the part of the United States; and by Mr. Oswald, on the part of Great Britain. These formed the basis of the definitive treaty, which was concluded the 3d of September, 1783, and signed by Dr. Franklin, Mr. Adams, and Mr. Jay, on the one part, and by Mr. David Hartly on the other.

On the 3d of April, 1783, a treaty of amity and commerce, between the United States and Sweden, was concluded at Paris, by Dr. Franklin and the Count Von Krutz.

## 130 LIFE OF DR. FRANKLIN.

A similar treaty with Prussia was concluded in 1785, not long before Dr. Franklin's departure from Europe.

Dr. Franklin did not suffer his political pursuits to engross his whole attention. Some of his performances made their appearance in Paris. The object of these was generally the promotion of industry and economy.

In the year 1784, when animal magnetism made great noise in the world, particularly at Paris, it was thought a matter of such importance, that the king appointed commissioners to examine into the foundation of this pretended science. Dr. Franklin was one of the number. After a fair and diligent examination, in the course of which Mesmer repeated a number of experiments, in the presence of the commissioners, some of which were tried upon themselves, they determined that it was a mere trick, intended to impose upon the ignorant and credulous—Mesmer was thus interrupted in his career to wealth and fame, and a most insolent attempt to impose upon the human understanding baffled.

The important ends of Dr. Franklin's mission being completed by the establishment of American independence, and the infirmities of age and disease coming upon him, he became desirous of returning to his native country. Upon application to congress to be recalled, Mr. Jefferson was appointed to succeed him, in 1785. Some time in September of the same year, Dr. Franklin arrived in Philadelphia. He was shortly after chosen member of the supreme executive council for the city; and soon after was elected president of the same.

When a convention was called to meet in Philadelphia in 1787, for the purpose of giving more energy to the government of the union, by revising and amending the articles of confederation, Dr. Franklin was appointed a delegate from the state of Pennsylvania. He signed the con-

stitution which they proposed for the union, and gave it the most unequivocal marks of his approbation.

A society for political inquiries, of which Dr. Franklin was president, was established about this period. The meetings were held at his house. Two or three essays read in this society were published. It did not long continue.

In the year 1787, two societies were established in Philadelphia, founded on the principles of the most liberal and refined humanity.—*The Philadelphia Society for alleviating the miseries of public prisons; and the Pennsylvanian Society for promoting the abolition of slavery, the relief of free negroes unlawfully held in bondage, and the improvement of the condition of the African race.* Of each of these Dr. Franklin was president. The labours of these bodies have been crowned with great success; and they continue to prosecute, with unwearied diligence, the laudable designs for which they were established.

Dr. Franklin's increasing infirmities prevented his regular attendance at the council-chamber; and, in 1788, he retired wholly from public life.

His constitution had been a remarkably good one. He had been little subject to disease except an attack of the gout occasionally, until about the year 1781, when he was first attacked with symptoms of the calculous complaint, which continued during his life. During the intervals of pain from this grievous disease, he spent many cheerful hours, conversing in the most agreeable and instructive manner. His faculties were entirely unimpaired, even to the hour of his death.

His name, as president of the abolition society, was signed to the memorial presented to the house of representatives of the United States, on the 12th of February, 1789, praying them to exert the full extent of power vested in them by the constitution, in discouraging the traffic of the human species. This was his last public act. In the de-

bates to which this memorial gave rise, several attempts were made to justify the trade. In the Federal Gazette of March 25th, there appeared an essay, signed Historicus, written by Dr. Franklin, in which he communicated a speech, said to have been delivered in the Divan of Algiers, in 1687, in opposition to the prayer of the petition of a sect, called *Erika*, or purists, for the abolition of piracy and slavery. This pretended African speech was an excellent parody of one delivered by Mr. Jackson, of Georgia. All the arguments urged in favour of negro slavery, are applied with equal force to justify the plundering and enslaving of Europeans. It affords, at the same time, a demonstration of the futility of the arguments in defence of the slave trade, and of the strength of mind and ingenuity of the author, at his advanced period of life. It furnished too, a no less convincing proof of his power of imitating the style of other times and nations, than his celebrated parable against persecution. And as the latter led many persons to search the scriptures with a view to find it, so the former caused many persons to search the book-stores and libraries, for the work from which it was said to be extracted.

In the beginning of April following, he was attacked with a fever and complaint of his breast, which terminated his existence. The following account of his last illness was written by his friend and physician, Dr. Jones.

"The stone, with which he had been afflicted for several years, had for the last twelve months confined him chiefly to his bed; and during the extremely painful paroxysms, he was obliged to take large doses of laudanum to mitigate his tortures; still, in the intervals of pain, he not only amused himself with reading and conversing cheerfully with his family and a few friends who visited him, but was often employed in doing business of a public as well as private nature, with various persons who waited on him for

that purpose; and in every instance displayed, not only that readiness and disposition of doing good, which was the distinguishing characteristic of his life, but the fullest and clearest possession of his uncommon mental abilities; and not unfrequently indulged himself in those *jeux d'esprit* and entertaining anecdotes, which were the delight of all who heard him.

"About sixteen days before his death, he was seized with a feverish indisposition, without any particular symptoms attending it, till the third or fourth day, when he complained of a pain in the left breast, which increased till it became extremely acute, attended with a cough and laborious breathing. During this state, when the severity of his pains sometimes drew forth a groan of complaint, he would observe, that he was afraid he did not bear it as he ought; acknowledged his grateful sense of the many blessings he had received from the Supreme Being, who had raised him from small and low beginnings to such high rank and consideration among men, and made no doubt but his present afflictions were kindly intended to wean him from a world in which he was no longer fit to act the part assigned him. In this frame of body and mind he continued till five days before his death, when his pain and difficulty of breathing entirely left him, and his family were flattering themselves with the hopes of his recovery, when an imposthume, which had formed itself in his lungs, suddenly burst, and discharged a great quantity of matter, which he continued to throw up while he had sufficient strength to do it, but, as that failed, the organs of respiration became gradually oppressed, a calm lethargic state succeeded, and on the 17th of April, 1790, about eleven o'clock at night, he quietly expired, closing a long and useful life of eighty-four years and three months."

It may not be amiss to add to the above account, that Dr. Franklin, in the year 1735, had a severe pleurisy,

which terminated in an abscess of the left lobe of his lungs, and he was then almost suffocated, with the quantity and suddenness of the discharge. A second attack of a similar nature happened, some years after this, from which he soon recovered, and did not appear to suffer any inconvenience in his respiration from these diseases.

The following epitaph on himself, was written by him many years previous to his death :

**THE BODY  
OF  
BENJAMIN FRANKLIN,  
PRINTER,**  
**(LIKE THE COVER OF AN OLD BOOK,  
ITS CONTENTS TORN OUT,  
AND STRIP OF ITS LETTERING AND GILDING)  
LIES HERE FOOD FOR WORMS;  
YET THE WORK ITSELF SHALL NOT BE LOST,  
FOR IT WILL (AS HE BELIEVED) APPEAR ONCE MORE  
IN A NEW  
AND MORE BEAUTIFUL EDITION,  
CORRECTED AND AMENDED  
BY  
THE AUTHOR.**

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*Extracts from the last Will and Testament of Dr. Franklin.*

With regard to my books, those I had in France, and those I left in Philadelphia, being now assembled together here, and a catalogue made of them, it is my intention to dispose of the same as follows : ' ' '

My "History of the Academy of Sciences," in sixty or seventy volumes quarto, I give to the philosophical society

of Philadelphia, of which I have the honour to be president. My collection in folio of "*Les Arts et les Metiers*," I give to the American Philosophical Society, established in New England, of which I am a member. My quarto edition of the same, "*Arts et Metiers*," I give to the Library Company of Philadelphia. Such and so many of my books as I shall mark, in the said catalogue, with the name of my grandson Benjamin Franklin Bache, I do hereby give to him: and such and so many of my books, as I shall mark in the said catalogue with the name of my grandson William Bache, I do hereby give to him: and such as shall be marked with the name of Jonathan Williams, I hereby give to my cousin of that name. The residue and remainder of all my books, manuscripts, and papers, I do give to my grandson William Temple Franklin. My share in the Library Company of Philadelphia, I give to my grandson, Benjamin Franklin Bache, confiding that he will permit his brothers and sisters to share in the use of it.

I was born in Boston, New England, and owe my first instructions in literature to the free grammar schools established there. I therefore give one hundred pounds sterling to my executors, to be by them, the survivors or survivor of them, paid over to the managers or directors of the free schools in my native town of Boston, to be by them, or the person or persons who shall have the superintendence and management of the said schools, put out to interest, and so continued at interest for ever; which interest annually shall be laid out in silver medals, and given as honorary rewards annually by the directors of the said free-schools, for the encouragement of scholarship in the said schools, belonging to the said town, in such manner as to the discretion of the select men of the said town shall seem meet.

Out of the salary that may remain due to me, as Presi-

dent of the State, I give the sum of two thousand pounds to my executors, to be by them, the survivors or survivor of them, paid over to such person or persons as the legislature of this state, by an act of assembly, shall appoint to receive the same, in trust, to be employed for making the Schuylkil navigable.

During the number of years I was in business as a stationer, printer, and post-master, a great many small sums became due to me for books, advertisements, postage of letters, and other matters, which were not collected, when, in 1757, I was sent by the assembly to England as their agent, and, by subsequent appointments, continued there till 1775, when, on my return, I was immediately engaged in the affairs of congress, and sent to France in 1776, where I remained nine years, not returning till 1785; and the said debts not being demanded in such a length of time, are become in a manner obsolete, yet are nevertheless justly due.—These as they are stated in my great folio ledger, E, I bequeath to the contributors of the Pennsylvania hospital; hoping that those debtors, and the descendants of such as are deceased, who now, as I find, make some difficulty of satisfying such antiquated demands as just debts, may, however, be induced to pay or give them as charity to that excellent institution. I am sensible that much must inevitably be lost; but I hope something considerable may be recovered. It is possible too, that some of the parties charged may have existing old unsettled accounts against me; in which case the managers of the said hospital will allow and deduct the amount, or pay the balance, if they find it against me.

I request my friends, Henry Hill, Esq. John Jay, Esq. Francis Hopkinson, Esq. and Mr. Edward Duffield, of Bonfield, in Philadelphia county, to be the executors of this my last will and testament, and I hereby nominate and appoint them for that purpose.

I would have my body buried with as little expense or ceremony as may be.

*Philadelphia, July. 17, 1778.*

### CODICIL.

I, Benjamin Franklin, in the foregoing or annexed last will and testament, having further considered the same, do think proper to make and publish the following codicil, in addition thereto.

It having long been a fixed and political opinion of mine, that in a democratical state there ought to be no offices of profit, for the reasons I had given in an article of my drawing in our constitution, it was my intention, when I accepted the office of president, to devote the appointed salary to some public use; accordingly I had already, before I made my last will in July last, given large sums of it to colleges, schools, building of churches, &c.; and, in that will I bequeathed two thousand pounds more to the state, for the purpose of making the Schuylkil navigable; but understanding since, that such a sum will do but little towards accomplishing such a work, and that project is not likely to be undertaken for many years to come—and having entertained another idea, which I hope may be more extensively useful, I do hereby revoke and annul the bequest, and direct that the certificates I have of what remains due to me of that salary, be sold towards raising the sum of two thousand pounds sterling, to be disposed of as I am now about to order.

It has been an opinion, that he who receives an estate from his ancestors, is under some obligation to transmit the same to posterity. This obligation lies not on me, who never inherited a shilling from any ancestor or relation. I shall, however, if it is not diminished by some accident before my death, leave a considerable estate among my descendants and relations. The above observation is made

merely as some apology to my family, for my making bequests that do not appear to have any immediate relation to their advantage.

I was born in Boston, New England, and owe my first instructions in literature to the free grammar schools established there. I have, therefore, considered those schools in my will.

But I am also under obligations to the state of Massachusetts, for having, unasked, appointed me formerly their agent, with a handsome salary, which continued some years; and although I accidentally lost in their service, by transmitting Governor Hutchinson's letters, much more than the amount of what they gave me, I do not think that ought in the least to diminish my gratitude. I have considered that, among artisans, good apprentices are most likely to make good citizens, and having myself been bred to a manual art, printing, in my native town, and afterwards assisted to set up my business in Philadelphia by kind loans of money from two friends there, which was the foundation of my fortune, and of all the utility in life that may be ascribed to me—I wish to be useful even after my death, if possible, in forming and advancing other young men, that may be serviceable to their country in both these towns.

To this end I devote two thousand pounds sterling, which I give, one thousand thereof to the inhabitants of the town of Boston, in Massachusetts, and the other thousand to the inhabitants of the city of Philadelphia, in trust, to and for the uses, intents, and purposes, herein after mentioned and declared.

The said sum of one thousand pounds sterling, if accepted by the inhabitants of the town of Boston, shall be managed under the direction of the select men, united with the ministers of the oldest Episcopalian, Congregational, and Presbyterian churches in that town, who are to let out

the same at five per cent. per annum, to such young married artificers, under the age of twenty-five years, as have served an apprenticeship in the said town, and faithfully fulfilled the duties required in their indentures, so as to obtain a good moral character from at least two respectable citizens, who are willing to become sureties in a bond, with the applicants, for the repayment of the money so lent, with interest, according to the terms herein after prescribed; all which bonds are to be taken for Spanish milled dollars, or the value thereof in current gold coin: and the manager shall keep a bound book, or books, wherein shall be entered the names of those who shall apply for, and receive the benefit of this institution, and of their sureties, together with the sums lent, the dates, and other necessary and proper records, respecting the business and concerns of this institution: and as these loans are intended to assist young married artificers, in setting up their business, they are to be proportioned by the discretion of the managers, so as not to exceed sixty pounds sterling to one person, nor to be less than fifteen pounds.

And if the number of applicants so entitled should be so large as that the sum will not suffice to afford to each as much as might otherwise not be improper, the proportion to each shall be diminished, so as to afford to every one some assistance. These aids may, therefore, be small at first, but as the capital increases by the accumulated interest, they will be more ample. And in order to serve as many as possible in their turn, as well as to make the re-payment of the principal borrowed more easy, each borrower shall be obliged to pay with the yearly interest, one-tenth part of the principal; which sums of principal and interest so paid in, shall be again let out to fresh borrowers. And it is presumed, that there will be always found in Boston virtuous and benevolent citizens, willing to bestow a part of their time in doing good to the rising generation, by super-

intending and managing this institution gratis ; it is hoped that no part of the money will at any time lie dead, or be diverted to other purposes, but be continually augmenting by the interest, in which case, there may in time be more than the occasion in Boston may require ; and then some may be spared to the neighbouring or other towns, in the said state of Massachussets, which may desire to have it, such towns engaging to pay punctually the interest, and the proportion of the principal annually to the inhabitants of the town of Boston. If this plan is executed, and succeeds, as projected, for one hundred years, the sum will then be one hundred and thirty thousand pounds, of which I would have the managers of the donation to the town of Boston then lay out, at their discretion, one hundred thousand pounds in public works, which may be judged of most general utility to the inhabitants ; such as fortifications, bridges, aqueducts, public buildings, baths, pavements, or whatever may make living in the town more convenient to its people, and render it more agreeable to strangers resorting thither for health, or a temporary residence. The remaining thirty-one thousand pounds I would have continued to be let out to interest, in the manner above directed, for one hundred years ; as I hope it will have been found that the institution has had a good effect on the conduct of youth, and been of service to many worthy characters and useful citizens. At the end of this second term, if no unfortunate accident has prevented the operation, the sum will be four millions and sixty-one thousand pounds sterling, of which I leave one million and sixty-one thousand pounds to the disposition and management of the inhabitants of the town of Boston, and the three millions to the disposition of the government of the state—not presuming to carry my views farther.

All the directions herein given respecting the disposition and management of the donation to the inhabitants of

Boston, I would have observed respecting that to the inhabitants of Philadelphia; only, as Philadelphia is incorporated, I request the corporation of that city to undertake the management, agreeable to the said directions: and I do hereby vest them with full and ample powers for that purpose. And having considered that the covering its ground plat with buildings and pavements, which carry off most of the rain, and prevent its soaking into the earth, and renewing and purifying the springs, whence the water of the wells must gradually grow worse, and in time be unfit for use, as I find has happened in all old cities; I recommend, that, at the end of the first hundred years, if not done before, the corporation of the city employ a part of the hundred thousand pounds in bringing by pipes the water of Wissahickon-creek into the town, so as to supply the inhabitants, which I apprehend may be done without great difficulty, the level of that creek being much above that of the city, and may be made higher by a dam. I also recommend making the Schuylkil completely navigable. At the end of the second hundred years, I would have the disposition of the four millions and sixty-one thousand pounds divided between the inhabitants of the city of Philadelphia and the government of Pennsylvania, in the same manner as herein directed with respect to that of the inhabitants of Boston and the government of Massachussets. It is my desire that this institution should take place, and begin to operate within one year after my decease, for which purpose due notice should be publicly given, previous to the expiration of that year, that those for whose benefit this establishment is intended may make their respective applications: and I hereby direct my executors, the survivor or survivors of them, within six months after my decease, to pay over the said sum of two thousand pounds sterling to such persons as shall be duly appointed by the select men of Boston, and the corporation of Philadelphia, to receive and take charge

of their respective sums of one thousand pounds each, for the purposes aforesaid. Considering the accidents to which all human affairs and projects are subject in such a length of time, I have, perhaps, too much flattered myself with a vain fancy, that these dispositions, if carried into execution, will be continued without interruption, and have the effects proposed : I hope, however, that if the inhabitants of the two cities should not think fit to undertake the execution, they will at least accept the offer of these donations, as a mark of my good will, token of my gratitude, and testimony of my desire to be useful to them even after my departure. I wish, indeed, that they may both undertake to endeavour the execution of my project, because I think, that, though unforeseen difficulties may arise, expedients will be found to remove them, and the scheme be found practicable. If one of them accepts the money with the conditions, and the other refuses, my will then is, that both sums be given to the inhabitants of the city accepting : the whole to be applied to the same purposes, and under the same regulations directed for the separate parts : and if both refuse, the money remains of course in the mass of my estate, and it is to be disposed of therewith, according to my will made the seventeenth day of July 1788.

My fine crab-tree walking-stick, with a gold head curiously wrought in the form of the cap of liberty, I give to my friend, and the friend of mankind, General Washington. If it was a sceptre, he has merited it, and would become it.

*The Busy-Body.—No. I.\**

MR. ANDREW BRADFORD,

I design this to acquaint you, that I, who have long been one of your courteous readers, have lately entertained some thought of setting up for an author myself; not out of the least vanity, I assure you, or desire of showing my parts, but purely for the good of my country.

I have often observed with concern, that your Mercury is not always equally entertaining. The delay of ships expected in, and want of fresh advices from Europe, make it frequently very dull; and I find the freezing of our river has the same effect on news as trade. With more concern have I continually observed the growing vices and follies of my country folk; and though reformation is properly the concern of every man, that is, every one ought to mend one; yet it is too true in this case, that what is every body's business is no body's business, and the business is done accordingly. I therefore, upon mature deliberation, think fit to take no body's business wholly into my own hands; and, out of zeal for the public good, design to erect myself into a kind of censor morum; purposing, with your allowance, to make use of the Weekly Mercury as a vehicle, in which my remonstrances shall be conveyed to the world.

I am sensible I have, in this particular, undertaken a very unthankful office, and expect little besides my labour for my pains. Nay, it is probable, I may displease a great number of your readers, who will not very well like to pay

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\* These papers appeared in the American Weekly Mercury, at various times, during the year 1728—9, and are the "humorous pieces" mentioned by Dr. Franklin in his memoirs.

ten shillings a year for being told of their faults. But as most people delight in censure, when they themselves are not the objects of it, if any are offended at my publicly exposing their private vices, I promise they shall have the satisfaction, in a very little time, of seeing their good friends and neighbours in the same circumstances.

However, let the fair sex be assured, that I shall always treat them and their affairs with the utmost decency and respect. I intend now and then to dedicate a chapter wholly to their service; and if my lectures any way contribute to the embellishment of their minds, and brightening of their understandings, without offending their modesty, I doubt not of having their favour and encouragement.

It is certain, that no country in the world produces naturally finer spirits than ours, men of genius for every kind of science, and capable of acquiring to perfection every qualification that is in esteem among mankind. But as few here have the advantage of good books, for want of which, good conversation is still more scarce, it would, doubtless, have been very acceptable to your readers, if, instead of an old out-of-date article from Muscovy or Hungary, you had entertained them with some well chosen extract from a good author. This I shall sometimes do, when I happen to have nothing of my own to say that I think of more consequence. Sometimes, I purpose to deliver lectures of morality or philosophy, and (because I am naturally inclined to be meddling with things that do not concern me) perhaps I may sometimes talk politics. And if I can by any means furnish out a weekly entertainment for the public, that will give a rational diversion, and at the same time be instructive to the readers, I shall think my leisure hours well employed: and if you publish this, I hereby invite all ingenious gentlemen and others (that approve of such an undertaking) to my assistance and correspondence.

It is like, by this time, you have a curiosity to be acquainted with my name and character. As I do not aim at public praise, I design to remain concealed : and there are such numbers of our family and relations at this time in the country, that, though I have signed my name at full length, I am not under the least apprehension of being distinguished and discovered by it. My character, indeed, I would favour you with, but that I am cautious of praising myself, lest I should be told my trumpeter is dead : and I cannot find it in my heart, at present, to say any thing to my own disadvantage.

It is very common with authors in their first performances, to talk to their readers thus, If this meets with a suitable reception, or, if this should meet with due encouragement, I shall hereafter publish, &c.—This only manifests the value they put on their old writings, since they think to frighten the public into their applause, by threatening, that unless you approve what they have already wrote, they intend never to write again ; when perhaps it may not be a pin matter whether they ever do or no. As I have not observed the critics to be more favourable on this account, I shall always avoid saying any thing of the kind ; and conclude with telling you, that if you send me a bottle of ink and a quire of paper by the bearer, you may depend on hearing further from, Sir,

Your most humble servant,

THE BUSY-BODY.

*The Busy-Body.—No. II.*

All fools have still an itching to deride,  
And faint would be upon the laughing side.—POPE.

Monsieur Rochefoucault tells us somewhere in his Mémoirs, that the Prince of Condé delighted much in ridicule, and used frequently to shut himself up for half a day together, in his chamber, with a gentleman, that was his favourite, purposely to divert himself with examining what was the foible, or ridiculous side, of every noted person in the court. That gentleman said afterwards in some company, that he thought nothing was more ridiculous in any body, than this same humour in the prince; and I am somewhat inclined to be of this opinion. The general tendency there is among us to this embellishment (which I fear has too often grossly imposed upon my loving countrymen instead of wit) and the applause it meets with from a rising generation, fill me with fearful apprehensions for the future reputation of my country: a young man of modesty (which is the most certain indication of large capacities) is hereby discouraged from attempting to make any figure in life: his apprehensions of being outlaughed, will force him to continue in a restless obscurity, without having an opportunity of knowing his own merit himself, or discovering it to the world, rather than venture to expose himself in a place, where a pun or a sneer shall pass for wit, noise for reason, and the strength of the argument be judged by that of the lungs. Among these witty gentlemen let us take a view of Ridentius: what a contemptible figure does he make with his train of paltry admirers? This wight shall give himself an hour's diversion with the cock of a man's hat, the heels of his shoes, an unguarded expression in his discourse, or even some personal defect; and the height of his low ambition is to put some one of the

company to the blush, who perhaps must pay an equal share of the reckoning with himself. If such a fellow makes laughing the sole end and purpose of his life, if it is necessary to his constitution, or if he has a great desire of growing suddenly fat, let him eat ; let him give public notice where any dull, stupid rogues may get a quart of four-penny for being laughed at ; but it is barbarously unhandsome, when friends meet for the benefit of conversation, and a proper relaxation from business, that one should be the butt of the company, and four men made merry at the cost of the fifth.

How different from this character is that of the good-natured, gay Eugenius ! who never spoke yet but with a design to divert and please ; and who was never yet baulked in his intention. Eugenius takes more delight in applying the wit of his friends, than being admired himself : and if any one of the company is so unfortunate as to be touched a little too nearly, he will make use of some ingenious artifice to turn the edge of ridicule another way, choosing rather to make himself a public jest, than be at the pain of seeing his friend in confusion.

Among the tribe of laughers I reckon the pretty gentlemen, that write satires, and carry them about in their pockets, reading them themselves in all company they happen to meet ; taking an advantage of the ill taste of the town, to make themselves famous for a pack of paltry low nonsense, for which they deserve to be kicked, rather than admired, by all who have the least tincture of politeness. These I take to be the most incorrigible of all my readers ; nay, I expect they will be squibbing at the Busy-Body himself. However, the only favour he begs of them is this, that if they cannot controul their overbearing itch of scribbling, let him be attacked in downright biting lyrics, for there is no satire he dreads half so much, as an attempt towards a panegyric.

*The Busy-Body.—No. III.*

Non vultus instantis Tyranni  
Menti quatit solida, nec austera,  
Dux inquieti turbidus Adriæ,  
Nec fulminantis magna Jovis manus.—Hor.

It is said, that the Persians, in their ancient constitution, had public schools, at which virtue was taught as a liberal art or science : and it is certainly of more consequence to a man, that he has learnt to govern his passions; in spite of temptation, to be just in his dealings, to be temperate in his pleasures, to support himself with fortitude under his misfortunes, to behave with prudence in all his affairs, and in every circumstance of life; I say it is of much more real advantage to him to be thus qualified, than to be a master of all the arts and sciences in the world besides.

Virtue alone is sufficient to make a man great, glorious, and happy. He that is acquainted with Cato, as I am, cannot help thinking, as I do now, and will acknowledge he deserves the name, without being honoured by it. Cato is a man whom fortune has placed in the most obscure part of the country. His circumstances are such, as only put him above necessity, without affording him many superfluities: yet who is greater than Cato? I happened but the other day to be at a house in town, where, among others, were met, men of the most note in this place; Cato had business with some of them, and knocked at the door. The most trifling actions of a man, in my opinion, as well as the smallest features and lineaments of the face, give a nice observer some notion of his mind. Methought he rapped in such a peculiar manner, as seemed of itself to express there was one who deserved as well as desired admission. He appeared in the plainest country garb; his great coat was coarse, and looked old and thread bare; his linen was

homespun ; his beard, perhaps, of seven days' growth ; his shoes thick and heavy ; and every part of his dress corresponding. Why was this man received with such concurring respect from every person in the room, even from those, who had never known him or seen him before ? It was not an exquisite form of person, or grandeur of dress, that struck us with admiration. I believe long habits of virtue have a sensible effect on the countenance : there was something in the air of his face, that manifested the true greatness of his mind ; which likewise appeared in all he said, and in every part of his behaviour, obliging us to regard him with a kind of veneration. His aspect is sweetened with humanity and benevolence, and at the same time emboldened with resolution, equally free from diffident bashfulness and an unbecoming assurance. The consciousness of his own innate worth and unshaken integrity renders him calm and undaunted in the presence of the most great and powerful, and upon the most extraordinary occasions. His strict justice and known impartiality make him the arbitrator and decider of all differences, that arise for many miles around him, without putting his neighbours to the charge, perplexity, and uncertainty of law-suits. He always speaks the thing he means, which he is never afraid or ashamed to do, because he knows he always means well ; and therefore is never obliged to blush, and feel the confusion of finding himself detected in the meanness of a falsehood. He never contrives ill against his neighbour, and therefore is never seen with a lowering, suspicious aspect. A mixture of innocence and wisdom makes him ever seriously cheerful. His generous hospitality to strangers according to his ability, his goodness, his charity, his courage in the cause of the oppressed, his fidelity in friendship, his humility, his honesty and sincerity, his moderation and his loyalty to the government, his piety, his temperance, his love to mankind, his magnanimity; his

public spiritedness, and, in fine, his consummate virtue, make him justly deserve to be esteemed the glory of his country.

The brave do never shun the light,  
Just are their thoughts, and open are their tempers ;  
Freely without disguise they love and hate,  
Still are they found in the fair face of day,  
And heaven and men are judges of their actions.—Rowe.

Who would not rather choose, if it were in his choice, to merit the above character, than be the richest, the most learned, or the most powerful man in the province without it?

Almost every man has a strong natural desire of being valued and esteemed by the rest of his species ; but I am concerned and grieved to see how few fall into the right and only infallible method of becoming so. That laudable ambition is too commonly misapplied, and often ill employed. Some, to make themselves considerable, pursue learning ; others grasp at wealth ; some aim at being thought witty ; and others are only careful to make the most of an handsome person : but what is wit, or wealth, or form or learning, when compared with virtue ? It is true we love the handsome, we applaud the learned, and we fear the rich and powerful ; but we even worship and adore the virtuous. Nor is it strange ; since men of virtue are so rare, so very rare to be found. If we were as industrious to become good, as to make ourselves great, we should become really great by being good, and the number of valuable men would be much increased ; but it is a grand mistake to think of being great without goodness ; and I pronounce it as certain, that there was never yet a truly great man, that was not at the same time truly virtuous.

O, Cretico ! thou soot philosopher ! thou cunning statesman ! thou art crafty, but far from being wise. When wilt thou be esteemed, regarded, and beloved like Cato ? When wilt thou, among thy creatures, meet with that unfeigned respect and warm good-will that all men have for him ?

Wilt thou never understand, that the cringing, mean, submissive deportment of thy dependents, is, (like the worship paid by Indians to the devil) rather through fear of the harm thou mayest do them, than out of gratitude for the favours they have received of thee? Thou art not wholly void of virtue; there are many good things in thee, and many good actions reported of thee. Be advised by thy friend: neglect those musty authors; let them be covered with dust, and moulder on their proper shelves; and do thou apply thyself to a study much more profitable, the knowledge of mankind and of thyself.

This is to give notice, that the Busy-Body strictly forbids all persons, from this time forward, of what age, sex, rank, quality, degree, or denomination soever, on any pretence, to inquire who is the author of this paper, on pain of his displeasure (his own near and dear relations only excepted).

It is to be observed, that if any bad characters happen to be drawn in the course of these papers, they mean no particular person, if they are not particularly applied.

Likewise, that the author is no party man, but a general meddler.

N. B. Cretico lives in a neighbouring province.

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*The Busy-Body.—No. IV—*

*Nequid nimis.*

In my first paper, I invited the learned and the ingenuous to join with me in this undertaking; and I now repeat that invitation. I would have such gentlemen to take this opportunity (by trying their talent in writing) of diverting themselves and friends, and improving the taste of the town. And because I would encourage all wit of our own

growth and produce, I hereby promise, that whoever shall send me a little essay on some moral or other subject, that is fit for public view in this manner (and not basely borrowed from any other author), I shall receive it with candour, and take care to place it to the best advantage. It will be hard, if we cannot muster up in the whole country a sufficient stock of sense to supply the Busy-Body at least for a twelvemonth. For my own part, I have already professed, that I have the good of my country wholly at heart in this design, without the least sinister view; my chief purpose being to inculcate the noble principles of virtue, and deprecate vice of every kind. But as I know the mob hate instruction, and the generality would never read beyond the first line of my lectures, if they were actually filled with nothing but wholesome precepts and advice, I must therefore sometimes humour them in their own way. There are a set of great names in the province, who are the common objects of popular dislike. If I can now and then overcome my reluctance, and prevail with myself to satirize a little one of these gentlemen, the expectation of meeting with such a gratification will induce many to read me through, who would otherwise proceed immediately to the foreign news. As I am very well assured the greatest men among us have a sincere love for their country, notwithstanding its ingratitude, and the insinuations of the envious and malicious to the contrary, so I doubt not but they will cheerfully tolerate me in the liberty I design to take for the end above-mentioned.

As yet I have but few correspondents, though they begin now to increase. The following letter, left for me at the printer's, is one of the first I have received, which I regard the more for that it comes from one of the fair sex, and because I have myself oftentimes suffered under the grievance therein complained of.

*To the Busy-Body.*

“ SIR,

“ You having set yourself up for a censoror morum, (as I think you call it) which is said to mean a reformer of manners, I know no person more proper to be applied to for redress in all the grievances we suffer from want of manners in some people. You must know, I am a single woman, and keep a shop in this town for a livelihood. There is a certain neighbour of mine, who is really agreeable company enough, and with whom I have had an intimacy of some time standing; but of late she makes her visits so exceedingly often, and stays so very long every visit, that I am tired out of all patience. I have no manner of time at all to myself; and you, who seem to be a wise man, must needs be sensible, that every person has little secrets and privacies, that are not proper to be exposed even to the nearest friend. Now I cannot do the least thing in the world, but she must know about it; and it is a wonder I have found an opportunity to write you this letter. My misfortune is, that I respect her very well, and know not how to disoblige her so much as to tell her, I should be glad to have less of her company; for if I should once hint such a thing, I am afraid she would resent it so as never to darken my door again. But alas, Sir, I have not yet told you half my affliction. She has two children that are just big enough to run about and do pretty mischief: these are continually along with mamma, either in my room or shop, if I have ever so many customers or people with me about business. Sometimes they pull the goods off my low shelves down to the ground, and perhaps, where one of them has just been making water. My friend takes up the stuff, and cries, “ Oh ! thou little wicked mischievous rogue ! But, however, it has done no great damage, it is

only wet a little ; and so puts it up upon the shelf again. Sometimes they get to my cask of nails behind the counter, and divert themselves, to my great vexation, with mixing my ten-penny, and eight-penny, and four-penny together. I endeavour to conceal my uneasiness as much as possible, and with a grave look go to sorting them out. She cries, “ Don’t thee trouble thyself, neighbour. Let them play a little ; I’ll put all to rights before I go.” But things are never so put to rights but that I find a great deal of work to do after they are gone. Thus, Sir, I have all the trouble and pesternent of children, without the pleasure of calling them my own ; and they are so now used to being here that they will be content no where else. If she would have been so kind as to have moderated her visits to ten times a day, and staid but half an hour at a time, I should have been contented, and I believe never have given you this trouble. But this very morning they have so tormented me that I could bear no longer ; for while the mother was asking me twenty impertinent questions, the youngest got to my nails, and with great delight rattled them by handfuls all over the floor ; and the other at the same time made such a terrible din upon my counter with a hammer, that I grew half distracted. I was just then about to make myself a new suit of pinners, but in the fret and confusion I cut it quite out of all manner of shape, and utterly spoiled a piece of the first muslin. Prav, Sir, tell me what I shall do. And talk a little against such unreasonable visiting in your next paper : though I would not have her affronted with me for a great deal, for sincerely I love her and her children, as well, I think, as a neighbour can, and she buys a great many things in a year at my shop. But I would beg her to consider, that she uses me unmercifully, though I believe it is only for want of thought. But I have twenty things more to tell you besides all this : there is a handsome gentleman

that has a mind (I don't question) to make love to me ; but he can't get the opportunity to——O dear, here she comes again ; I must conclude,

"Your's, &c.

"PATIENCE."

Indeed, it is well enough, as it happens, that she is come to shorten this complaint, which I think is full long enough already, and probably would otherwise have been as long again. However, I must confess, I cannot help pitying my correspondent's case, and in her behalf, exhort the visitor to remember and consider the words of the wise man, withdraw thy foot from the house of thy neighbour, lest he grow weary of thee, and so hate thee. It is, I believe, a nice thing and very difficult, to regulate our visits in such a manner, as never to give offence by coming too seldom, or too often, or departing too abruptly, or staying too long. However, in my opinion, it is safest for most people, in a general way, who are unwilling to disoblige, to visit seldom, and tarry but a little while in a place ; notwithstanding pressing invitations, which are many times insincere. And though more of your company should be really desired ; yet in this case, too much reservedness is a fault more easily excused than the contrary.

Men are subject to various inconveniences merely through lack of a small share of courage, which is a quality very necessary in the common occurrences of life, as well as in a battle. How many impertinencies do we daily suffer with great uneasiness, because we have not courage enough to discover our dislike ? And why may not a man use the boldness and freedom of telling his friends, that their long visits sometimes incommoded him ? On this occasion, it may be entertaining to some of my readers, if I acquaint them with the Turkish manner of entertaining visitors, which I have from an author of unquestionable ve-

racity ; who assures, that even the Turks are not so ignorant of civility and the arts of endearment, but that they can practise them with as much exactness as any other nation, whenever they have a mind to show themselves obliging.

“ When you visit a person of quality (says he) and have talked over your business, or the compliments, or whatever concern brought you thither, he makes a sign to have things served in for the entertainment, which is generally a little sweetmeat, a dish of sherbet, and another of coffee ; all which are immediately brought in by the servants, and tendered to all the guests in order, with the greatest care and awfulness imaginable. At last comes the finishing part of your entertainment, which is, perfuming the beards of the company ; a ceremony which is performed in this manner. They have for the purpose a small silver chaffing dish, covered with a lid full of holes, and fixed upon a handsome plate. In this they put some fresh coals, and upon them a piece of lignum aloes, and shutting it up, the smoke immediately ascends with a grateful odour through the holes of the cover. This smoke is held under every one’s chin, and offered as it were a sacrifice to his beard. The bristly idol soon receives the reverence done to it, and so greedily takes in and incorporates the gummy steam, that it retains the savour of it, and may serve for a nosegay a good while after.

“ This ceremony may perhaps seem ridiculous at first hearing ; but it passes among the Turks for an high gratification. And I will say this in its vindication, that its design is very wise and useful. For it is understood to give a civil dismission to the visitants, intimating to them, that the master of the house has some business to do, or some other avocation, that permits them to go away as soon as they please ; and the sooner after this ceremony the better. By this means you may, at any time, without offence, deliver yourself from being detained from your affairs by

tedious and unseasonable visits ; and from being constrained to use that piece of hypocrisy, so common in the world, of pressing those to stay longer with you, whom perhaps in your heart you wish a great way off for having troubled you so long already."

Thus far my author. For my own part, I have taken such a fancy to this Turkish custom, that for the future I shall put something like it in practice. I have provided a bottle of right French brandy for the men, and citron water for the ladies. After I have treated with a dram, and presented a pinch of my best snuff, I expect all company will retire, and leave me to pursue my studies for the good of the public.

#### *Advertisement.*

I give notice, that I am now actually compiling, and design to publish in a short time, the true history of the rise, growth, and progress of the renowned Tiff Club. All persons who are acquainted with any facts, circumstances, characters, transactions, &c. which will be requisite to the perfecting and embellishment of the said work, are desired to communicate the same to the author, and direct their letters to be left with the printer hereof.

The letter signed Would-be-something is come to hand.

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#### *The Busy-Body.—No. V.*

Nos, o patritius sanguis, quos vivere fas est,  
Occipiti cæco, postice occurrite sannæ.—PERSIUS.

This paper being designed for a terror to evil doers, as well as praise to them that do well, I am lifted up with secret joy to find, that my undertaking is approved, and encouraged by the just and good, and that few are against me but those who have reason to fear me.

There are little follies in the behaviour of most men, which their best friends are too tender to acquaint them with ; there are little vices and small crimes which the law has no regard to or remedy for : there are likewise great pieces of villainy some times so craftily accomplished, and so circumspectly guarded, that the law can take no hold of the actors. All these things, and all things of this nature, come within my province as censor, and I am determined not to be negligent of the trust I have reposed in myself, but resolve to execute my office diligently and faithfully.

And that all the world may judge with how much humanity, as well as justice, I shall behave in this office; and that even my enemies may be convinced I take no delight to rake into the dunghill lives of vicious men ; and to the end that certain persons may be a little eased of their fears, and relieved from the terrible palpitations they have lately felt and suffered, and do still suffer ; I hereby graciously pass an act of general oblivion, for all offences, crimes, and misdemeanors of what kind soever, committed from the beginning of the year 1681, until the day of the date of my first paper, and promise only to concern myself with such as have been since and shall hereafter be committed. I shall take no notice who has (heretofore) raised a fortune by fraud and oppression, nor who by deceit and hypocrisy ; what woman has been false to her good husband's bed, nor what man has, by barbarous usage or neglect, broke the heart of a faithful wife, and wasted his health and substance in debauchery ; what base wretch has betrayed his friend, and sold his honesty for gold, nor what baser wretch first corrupted him, and then bought the bargain : all this, and much more of the same kind, I shall forget, and pass over in silence ; but then it is to be observed, that I expect and require a sudden and general amendment.

These threatenings of mine I hope will have a good effect, and, if regarded, may prevent abundance of folly

and wickedness in others, and, at the same time, save me abundance of trouble: and that people may not flatter themselves with the hopes of concealing their loose misdemeanors from my knowledge, and in that view persist in evil doing, I must acquaint them, that I have lately entered into an intimacy with the extraordinary person, who some time since wrote me the following letter; and who, having a wonderful faculty, that enables him to discover the most secret iniquity, is capable of giving me great assistance in my designed work of reformation.

“ MR. BUSY-BODY,

“ I rejoice, Sir, at the opportunity you have given me to be serviceable to you, and, by your means, to this province. You must know, that such have been the circumstances of my life, and such were the marvellous concurrences of my birth, that I have not only a faculty of discovering the actions of persons, that are absent or asleep, but even of the devil himself, in many of his secret workings, in the various shapes, habits, and names of men and women: and having travelled and conversed much, and met but with a very few of the same perceptions and qualifications, I can recommend myself to you as the most useful man you can correspond with. My father's father's father (for we had no grandfathers in our family) was the same John Bunyan that writ that memorable book, *The Pilgrim's Progress*, who had, in some degree, a natural faculty of second sight. This faculty (how derived to him our family memoirs are not very clear) was enjoyed by all his descendants, but not by equal talent. It was very dim in several of my first cousins, and probably had been nearly extinct in our particular branch, had not my father been a traveller. He lived, in his youthful days, in New England. There he married, and there was born my elder brother, who had so much of this faculty, as to dis-

cover witches in some of their occult performances. My parents transporting themselves to Great Britain, my second brother's birth was in that kingdom. He shared but a small portion of this virtue, being only able to discern transactions about the time of, and for the most part after, their happening. My good father, who delighted in the Pilgrim's Progress, and mountainous places, took shipping, with his wife, for Scotland, and inhabited in the Highlands, where myself was born; and whether the soil, climate, or astral influences, of which are preserved divers prognostics, restored our ancestor's natural faculty of second sight, in a greater lustre to me, than it had shined in through several generations, I will not here discuss. But so it is, that I am possessed largely of it, and design, if you encourage the proposal, to take this opportunity of doing good with it, which I question not will be accepted of in a grateful way by many of your honest readers, though the discovery of my extraction bodes me no deference from your great scholars and modern philosophers. This my father was long ago aware of, and lest the name alone should hurt the fortunes of his children, he, in his shiftings from one country to another, wisely changed it.

"Sir, I have only this further to say, how I may be useful to you, and as a reason for my not making myself more known in the world: by virtue of this great gift of nature, second-sightedness, I do continually see numbers of men, women, and children, of all ranks, and what they are doing, while I am sitting in my closet; which is too great a burden for my mind, and makes me also conceit, even against reason, that all this host of people can see and observe me, which strongly inclines me to solitude, and an obscure living; and, on the other hand, it will be an ease to me to disburden my thoughts and observations in the way proposed to you, by Sir, your friend and humble servant."

I conceal this correspondent's name, in my care for his life and safety, and cannot but approve his prudence, in choosing to live obscurely. I remember the fate of my poor monkey : he had an ill-natured trick of grinning and chattering at every thing he saw in petticoats : my ignorant country neighbours got a notion, that pug snarled by instinct at every female who had lost her virginity. This was no sooner generally believed, than he was condemned to death : by whom I could never learn ; but he was assassinated in the night, barbarously stabbed and mangled in a thousand places, and left hanging dead on one of my gate posts, where I found him the next morning.

The censor observing, that the itch of scribbling begins to spread exceedingly, and being carefully tender of the reputation of his country, in point of wit and good sense, has determined to take all manner of writings in verse or prose, that pretend to either, under his immediate cognizance ; and accordingly, hereby prohibits the publishing any such for the future, till they have first passed his examination, and received his imprimatur: for which he demands as a fee only sixpence per sheet.

N. B. He nevertheless permits to be published, all satirical remarks on the Busy-Body, notwithstanding the above prohibition, and without examination, or requiring the said fees ; which indulgence the small wits, in and about this city, are advised gratefully to accept and acknowledge.

The gentleman, who calls himself Sirronio, is directed, on receipt of this, to burn his great book of crudities.

P. S. In compassion to that young man, on account of the great pains he has taken, in consideration of the character I have just received of him, that he is really good natured ; and on condition he shows it to no foreigner, or stranger of sense, I have thought fit to reprieve his said great book of crudities from the flames, till further order.

No. 6.

M

*Noli me tangere.*

I had resolved, when I first commenced this design, on no account to enter into a public dispute with any man; for I judged it would be equally unpleasant to me and my readers, to see this paper filled with contentious wrangling, answers, replies, &c. which is a way of writing that is endless, and, at the same time, seldom contains any thing that is either edifying or entertaining. Yet, when such a considerable man as Mr. —— finds himself concerned so warmly to accuse and condemn me, as he has done in Keimer's last Instructor, I cannot forbear endeavouring to say something in my own defence, from one of the worst of characters that could be given me by a man of worth. But as I have many things of more consequence to offer the public, I declare, that I will never, after this time, take notice of any accusations, not better supported with truth and reason; much less may every little scribbler that shall attack me, expect an answer from the Busy-Body.

The sum of the charge delivered against me, either directly or indirectly, in the said paper, is this: not to mention the first weighty sentence concerning vanity and ill-nature, and the shrewd intimation, that I am without charity, and therefore can have no pretence to religion, I am represented as guilty of defamation and scandal, the odiousness of which is apparent to every good man, and the practice of it opposite to Christianity, morality, and common justice, and, in some cases, so far below all these, as to be inhuman; as a blaster of reputations; as attempting, by a pretence, to screen myself from the imputation of malice and prejudice; as using a weapon, which the wiser and better part of mankind hold in abhorrence; and as giving treatment which the wiser and better part of mankind dislike

on the same principles, and for the same reason, as they do assassination, &c. and all this is inferred and concluded from a character I have wrote in my Number III.

In order to examine the justice and truth of this heavy charge, let us recur to that character. And here we may be surprised to find what a trifle has raised this mighty clamour and complaint, this grievous accusation!—The worst thing said of the person, in what is called my gross description (be he who he will to whom my accuser has applied the character of Cretico) is, that he is a sour philosopher, crafty, but not wise. Few humane characters can be drawn that will not fit some body, in so large a country as this; but one would think, supposing I meant Cretico a real person, I had sufficiently manifested my impartiality, when I said in that very paragraph, that Cretico is not without virtue; that there are many good things in him, and many good actions reported of him; which must be allowed in all reason, very much to overbalance in his favour those worst words, sour tempered, and cunning. Nay, my very enemy and accuser must have been sensible of this, when he freely acknowledges, that he has been seriously considering, and cannot yet determine, which he would choose to be, the Cato or Cretico of that paper; since my Cato is one of the best of characters. Thus much in my own vindication. As to the only reasons there given, why I ought not to continue drawing characters, viz. Why should any man's picture be published which he never sat for? or his good name taken from him any more than his money or possessions, at the arbitrary will of another, &c.? I have but this to answer: the money or possessions, I presume, are nothing to the purpose; since no man can claim a right either to those or a good name, if he has acted so as to forfeit them. And are not the publick the only judges what share of reputation they think proper to allow any man? Supposing I was capable, and had an in-

cination, to draw all the good and bad characters in America, why should a good man be offended with me for drawing good characters? And if I draw ill ones, can they fit any but those that deserve them? And ought any but such to be concerned that they have their deserts? I have as great an aversion and abhorrence for defamation and scandal as any man, and would, with the utmost care, avoid being guilty of such base things: besides, I am very sensible and certain, that if I should make use of this paper to defame any person, my reputation would be sooner hurt by it than his; and the Busy-Body would quickly become detestable; because, in such a case, as is justly observed, the pleasure arising from a tale of wit and novelty soon dies away in generous and honest minds, and is followed with a secret grief, to see their neighbours calumniated. But if I myself was actually the worst man in the province, and any one should draw my true character, would it not be ridiculous in me to say, he had defamed and scandalized me, unless he had added in a matter of truth? If any thing is meant by asking, why any man's picture should be published which he never sat for? it must be, that we should give no character without the owner's consent. If I discern the wolf disguised in harmless wool, and contriving the destruction of my neighbour's sheep, must I have his permission, before I am allowed to discover and prevent him? If I know a man to be a designing knave, must I ask his consent, to bid my friends beware of him? If so, then, by the same rule, supposing the Busy-Body had really merited all his enemy had charged him with, his consent likewise ought to have been obtained, before so terrible an accusation was published against him.

I shall conclude with observing, that in the last paragraph save one of the piece now examined, much ill-nature and some good sense are co-inhabitants (as he expresses it). The ill-nature appears, in his endeavouring to discover

satire, where I intended no such thing, but quite the reverse: the good sense is this, that drawing too good a character of any one is a refined manner of satire, that may be as injurious to him as the contrary, by bringing on an examination that undresses the person, and in the haste of doing it, he may happen to be stript of what he really owns and deserves. As I am censor, I might punish the first, but I forgive it. Yet I will not leave the latter unrewarded; but assure my adversary, that in consideration of the merit of those four lines, I am resolved to forbear injuring him on any account in that refined manner.

I thank my neighbour P——W——l for his kind letter.

The lions complained of shall be muzzled.

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*The Busy-Body.—No. VIII.*

Quid non mortalia pectora cogis,  
Auri sacra fames?—VIRGIL.

One of the greatest pleasures an author can have, is, certainly, the hearing his works applauded. The hiding from the world our names, while we publish our thoughts, is so absolutely necessary to this self-gratification, that I hope my well-wishers will congratulate me on my escape from the many diligent, but fruitless inquiries, that have of late been made after me. Every man will own, that an author, as such, ought to be hid by the merit of his productions only; but pride, party, and prejudice, at this time, run so very high, that experience shows we form our notions of a piece by the character of the author. Nay, there are some very humble politicians in and about this city, who will ask, on which side the writer is, before they presume to give their opinion of the thing wrote. 'This ungenerous way

of proceeding I was well aware of before I published my first speculation ; and therefore concealed my name. And I appeal to the more generous part of the world, if I have, since I appeared in the character of the Busy-Body, given an instance of my siding with any party more than another, in the unhappy divisions of my country ; and I have, above all, this satisfaction in myself, that neither affection, aversion, or interest, have biassed me to use any partiality towards any man, or set of men ; but whatsoever I find nonsensical, ridiculous, or immorally dishonest, I have, and shall continue openly to attack, with the freedom of an honest man, and a lover of my country.

I profess I can hardly contain myself, or preserve the gravity and dignity that should attend the censorial office, when I hear the odd and unaccountable expositions that are put upon some of my works, through the malicious ignorance of some, and the vain pride of more than ordinary penetration in others ; one instance of which many of my readers are acquainted with. A certain gentleman has taken a great deal of pains to write a key to the letter in my Number IV. wherein he has ingeniously converted a gentle satire upon tedious and impertinent visitants, into a libel on some of the government. This I mention only as a specimen of the taste of the gentleman ; I am, forsooth, bound to please in my speculations, not that I suppose my impartiality will ever be called in question on that account. Injustices of this nature I could complain of in many instances ; but I am at present diverted by the reception of a letter, which, though it regards me only in my private capacity, as an adept, yet I venture to publish it for the entertainment of my readers.

*" To Censor Morum, Esq. Busy-Body General of the Province of Pennsylvania, and the counties of Newcastle, Kent, and Sussex upon Delaware.*

" HONOURABLE SIR,

I judge by your lucubrations, that you are not only a lover of truth and equity, but a man of parts and learning, and a master of science; as such I honour you. Know, then, most profound Sir, that I have, from my youth up, been a very indefatigable student in, and admirer of, that divine science, astrology. I have read over Scot, Albertus Magnus, and Cornelius Agrippa, above three hundred times; and was in hopes, by my knowledge and industry, to gain enough to have recompensed me for my money expended, and the time lost in the pursuit of this learning. You cannot be ignorant, Sir (for your intimate second-sighted correspondent knows all things), that there are large sums of money hidden under ground in divers places about this town, and in many parts of the country: but alas, Sir, notwithstanding I have used all the means laid down in the immortal authors before mentioned, and when they failed the ingenious Mr. P-d-l, with his mercurial wand and magnet, I have still failed in my purpose. This, therefore, I send, to propose and desire an acquaintance with you, and I do not doubt, notwithstanding my repeated ill fortune, but we may be exceedingly serviceable to each other in our discoveries; and that if we use our united endeavours, the time will come, when the Busy-Body, his second-sighted correspondent, and your very humble servant, will be three of the richest men in the province: and then, Sir, what may we not do! A word to the wise is sufficient.

" I conclude with all demonstrable respect,

" Yours and Urania's votary,

" TITAN PLEIADES."

In the evening after I had received this letter, I made a visit to my second-sighted friend, and communicated to him the proposal. When he had read it, he assured me, that to his certain knowledge, there is not at this time so much as one ounce of silver or gold hid under ground in any part of this province; for that the late and present scarcity of money had obliged those, who were living, and knew where they had formerly hid any, to take it up, and use it in their own necessary affairs: and as to all the rest, which was buried by pirates and others in old times, who were never like to come for it, he himself had long since dug it all up, and applied it to charitable uses; and this he desired me to publish for the general good. For, as he acquainted me, there are among us great numbers of honest artificers and labouring people, who, fed with a vain hope of growing suddenly rich, neglect their business, almost to the ruining of themselves and families, and voluntary endure abundance of fatigue in a fruitless search after imaginary hidden treasure. They wander through the woods and bushes by day, to discover the marks and signs; at midnight they repair to the hopeful spots with spades and pickaxes; full of expectation, they labour violently, trembling at the same time in every joint, through fear of certain malicious demons, who are said to haunt and guard such places. At length a mighty hole is dug, and perhaps several cartloads of earth thrown out; but, alas, no cag or iron pot is found! no seaman's chest crammed with Spanish pistoles, or weighty pieces of eight! Then they conclude, that through some mistake in the procedure, some rash word spoke, or some rule of art neglected, the guardian spirit had power to sink it deeper into the earth, and convey it out of their reach. Yet, when a man is once thus infatuated, he is so far from being discouraged by ill success, that he is rather animated to double his industry, and will try again and again in a hundred different places,

in hopes at last of meeting with some lucky hit, that shall at once sufficiently reward him for all his expence of time and labour.

This odd humour of digging for money, through a belief that much has been hid by pirates formerly frequenting the river, has for several years been mighty prevalent among us; insomuch that you can hardly walk half a mile out of the town on any side, without observing several pits dug with that design, and perhaps some lately opened. Men, otherwise of very good sense, have been drawn into this practice, through an overweening desire of sudden wealth, and an easy credulity of what they so earnestly wished might be true. While the rational and almost certain methods of acquiring riches by industry and frugality are neglected or forgotten. There seems to be some peculiar charm in the conceit of finding money; and if the sands of Schuykil were so much mixed with small grains of gold, that a man might in a day's time, with care and application, get together to the value of half a crown, I make no question but we should find several people employed there, that can with ease earn five shillings a day at their proper trades.

Many are the idle stories told of the private success of some people, by which others are encouraged to proceed; and the astrologers, with whom the country swarms at this time, are either in the belief of these things themselves, or find their advantage in persuading others to believe them; for they are often consulted about the critical times for digging, the methods of laying the spirit, and the like whimsies, which renders them very necessary to, and very much caressed by, the poor deluded money-hunters.

There is certainly something very bewitching in the pursuit after mines of gold and silver and other valuable metals, and many have been ruined by it. A sea-captain of my acquaintance used to blame the English for envying

Spain their mines of silver, and too much despising or overlooking the advantages of their own industry and manufactures. For my part, says he, I esteem the banks of Newfoundland to be a more valuable possession than the mountains of Potosi; and when I have been there on the fishing account, have looked upon every cod pulled up into the vessel as a certain quantity of silver ore, which required only carrying to the next Spanish port to be coined into pieces of eight; not to mention the national profit of fitting out and employing such a number of ships and seamen. Let honest Peter Buckram, who has long, without success, been a searcher after hidden money, reflect on this, and be reclaimed from that unaccountable folly. Let him consider, that every stitch he takes when he is on his shop board is picking up part of a grain of gold, that will in a few days time amount to a pistole; and let Faber think the same of every nail he drives or every stroke with his plane. Such thoughts may make them industrious, and of consequence in time they may be wealthy. But how absurd is it to neglect a certain profit for such a ridiculous whimsey: to spend whole days at the George, in company with an idle pretender to astrology, contriving schemes to discover what was never hidden, and forgetful how carelessly business is managed at home in their absence: to leave their wives and a warm bed at midnight (no matter if it rain, hail, snow, or blow a hurricane, provided that be the critical hour) and fatigue themselves with the violent exercise of digging for what they shall never find, and perhaps getting a cold that may cost their lives, or at least disordering themselves so as to be fit for no business beside for some days after. Surely this is nothing less than the most egregious folly and madness.

I shall conclude with the words of my discreet friend, Agricola, of Chester county, when he gave his son a good plantation:—"My son," says he, "I give thee now a va-

luable parcel of land ; I assure thee I have found a considerable quantity of gold by digging there ; thee mayest do the same ; but thee must carefully observe this, never to dig more than plough-deep."

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*The Way to Wealth, as clearly shewn in the Preface of an old Pennsylvanian Almanack, intitled, Poor Richard Improved.*

COURTEOUS READER,

I have heard, that nothing gives an author so great pleasure, as to find his works respectfully quoted by others. Judge, then, how much I must have been gratified by an incident I am going to relate to you. I stopped my horse lately, where a great number of people were collected, at an auction of merchants' goods. The hour of the sale not being come, they were conversing on the badness of the times ; and one of the company called to a plain clean old man, with white locks, 'Pray, Father Abraham, what think you of the times ? Will not these heavy taxes quite ruin the country ? How shall we ever be able to pay them ? What would you advise us to ?' Father Abraham stood up, and replied, 'If you would have my advice, I will give it you in short, "for a word to the wise is enough," as poor Richard says.' They joined in desiring him to speak his mind, and, gathering round him, he proceeded as follows :

'Friends,' says he, 'the taxes are, indeed, very heavy, and, if those laid on by the government were the only ones we had to pay, we might more easily discharge them ; but we have many others, and much more grievous to some of us. We are taxed twice as much by our idleness, three times as much by our pride, and four times as much by our

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folly ; and from these taxes the commissioners cannot ease or deliver us, by allowing an abatement. However, let us hearken to good advice, and something may be done for us ; "God helps them that help themselves," as poor Richard says.

I. It would be thought a hard government that should tax the people one-tenth part of their time, to be employed in its service : but idleness taxes many of us much more ; sloth, by bringing on diseases, absolutely shortens life. "Sloth, like rust, consumes faster than labour wears, while the used key is always bright," as poor Richard says. "But dost thou love life, then do not squander time, for that is the stuff life is made of," as poor Richard says. How much more than is necessary do we spend in sleep ! forgetting, that "the sleeping fox catches no poultry, and that there will be sleeping enough in the grave," as poor Richard says.

"If time be of all things the most precious, wasting time must be," as poor Richard says, "the greatest prodigality ;" since, as he elsewhere tells us, "lost time is never found again ; and what we call time enough always proves little enough :" let us then up and be doing, and doing to the purpose ; so by diligence shall we do more with less perplexity. "Sloth makes all things difficult, but industry all easy ; and he that riseth late must trot all the day, and shall scarce overtake his business at night ; while laziness travels so slowly, that poverty soon overtakes him. Drive thy business, let not that drive thee : and early to bed, and early to rise, makes a man healthy, wealthy, and wise," as poor Richard says.

'So what signifies wishing and hoping for better times ? We may make these times better, if we bestir ourselves. "Industry need not wish, and he that lives upon hope will die fasting. There are no gains without pains ; then help hands, for I have no lands," or, if I have, they are smartly

taxed. "He that hath a trade, hath an estate; and he that hath a calling, hath an office of profit and honour," as poor Richard says; but then the trade must be worked at, and the calling well followed, or neither the estate nor the office will enable us to pay our taxes. If we are industrious, we shall never starve; for, "at the working man's house, hunger looks in, but dares not enter." Nor will the bailiff or the constable enter, for "industry pays debts, while despair increaseth them." What though you have found no treasure, nor has any rich relation left you a legacy, "diligence is the mother of good luck, and God gives all things to industry. Then plough deep, while sluggards sleep, and you shall have corn to sell and to keep." Work while it is called to-day, for you know not how much you may be hindered to-morrow. "One to-day is worth two to-morrows," as poor Richard says; and, farther, "never leave that till to-morrow, which you can do to-day." If you were a servant, would you not be ashamed that a good master should catch you idle? Are you then your own master? Be ashamed to catch yourself idle, when there is so much to be done for yourself, your family, your country, and your king. Handle your tools without mittens, remember, "that the cat in gloves catches no mice," as poor Richard says. It is true there is much to be done, and perhaps you are weak-handed; but stick to it steadily, and you will see great effects, for "constant dropping wears away stones; and by diligence and patience the mouse ate in two the cable; and little strokes fell great oaks."

"Methinks I hear some of you say, "must a man afford himself no leisure?" I will tell thee, my friend, what poor Richard says; "employ thy time well, if thou meanest to gain leisure; and since thou art not sure of a minute, throw not away an hour." Leisure is time for doing something useful; this leisure the diligent man will obtain, but the

lazy man never ; for “ a life of leisure and a life of laziness are two things. Many, without labour, would live by their wits only, but they break for want of stock ; ” whereas industry gives comfort, and plenty, and respect. “ Fly pleasures, and they will follow you. The diligent spinner has a large shift ; and now I have a sheep and a cow, every body bids me good-morrow.”

‘ II. But with our industry we must likewise be steady, settled, and careful, and oversee our own affairs with our own eyes, and not trust too much to others ; for, as poor Richard says,

“ I never saw an oft-removed tree,  
Nor yet an oft-removed family,  
That thrives so well as those that settled be.”

And again, “ three removes are as bad as a fire : ” and again, “ keep thy shop, and thy shop will keep thee ; ” and again, “ if you would have your business done, go ; if not, send.” And again,

“ He that by the plough would thrive,  
Himself must either hold or drive.”

And again, “ the eye of a master will do more work than both his hands ; ” and again, “ want of care does us more damage than want of knowledge ; ” and again, “ not to oversee workmen, is to leave them your purse open.’ Trusting too much to others’ care is the ruin of many ; for, “ in the affairs of the world, men are saved, not by faith, but by the want of it ; ” but a man’s own care is profitable ; for, “ if you would have a faithful servant, and one you like, serve yourself. A little neglect may breed great mischief ; for want of a nail the shoe was lost, and for want of a shoe the horse was lost, and for want of a horse the rider was lost,” being overtaken and slain by the enemy ; all for want of a little care about a horse-shoe nail.

‘ III. So much for industry my friends, and attention to one’s own business ; but to these we must add frugality, if we would make our industry more successful. A man

may, if he knows not how to save as he gets, “keep his nose all his life to the grindstone, and die not worth a groat at last. A fat kitchen makes a lean will ;” and

“ Many estates are spent in the getting,  
Since women for tea forsook spinning and knitting,  
And men for punch forsook hewing and splitting.”

“ If you would be wealthy, think of saving, as well as of getting. The Indies have not made Spain rich, because her outgoes are greater than her incomes.”

“ Away, then, with your expensive follies, and you will not then have so much cause to complain of hard times, heavy taxes, and chargeable families ; for

“ Women and wine, game and deceit,  
Make the wealth small, and the want great.”

And farther, “ what maintains one vice, would bring up two children.” You may think, perhaps, that a little tea, or a little punch now and then, diet a little more costly, clothes a little finer, and a little entertainment now and then, can be no great matter ; but remember, “ many a little makes a mickle.” Beware of little expenses ; “ a small leak will sink a great ship,” as poor Richard says ; and again, “ who dainties love, shall beggars prove ;” and moreover, “ foools make feasts, and wise men eat them.”

“ Here you are all got together to this sale of fineries and knick-nacks. You call them *goods* : but, if you do not take care, they will prove *evils* to some of you. You expect they will be sold cheap, and perhaps they may, for less than they cost ; but, if you have no occasion for them, they must be dear to you. Remember what poor Richard says, “ buy what thou hast no need of, and ere long thou shalt sell thy necessaries.” And again, “ at a great penny-worth pause a while.” He means, that perhaps the cheapness is apparent only, and not real ; or the bargain, by straitening thee in thy business, may do thee more harm than good. For in another place he says, “ many have

been ruined by buying good penny-worths." Again, "it is foolish to lay out money in a purchase of repentance;" and yet this folly is practised every day at auctions, for want of minding the almanack. Many a one, for the sake of finery on the back, have gone with a hungry belly, and half starved their families; "silks and satins, scarlet and velvets, put out the kitchen fire," as poor Richard says. These are not the necessities of life, they can scarcely be called the conveniences; and yet, only because they look pretty, how many want to have them? By these and other extravagancies, the genteel are reduced to poverty, and forced to borrow of those whom they formerly despised, but who, through industry and frugality, have maintained their standing; in which case it appears plainly, that "a ploughman on his legs is higher than a gentleman on his knees," as poor Richard says. Perhaps they have had a small estate left them, which they knew not the getting of; they think "it is day, and never will be night;" that a little to be spent out of so much is not worth minding; but "always taking out of the meal-tub, and never putting in, soon comes to the bottom," as poor Richard says; and then, "when the well is dry, they know the worth of water." But this they might have known before, if they had taken his advice: "if you would know the value of money, go and try to borrow some; for he that goes a borrowing goes a sorrowing," as poor Richard says; and indeed so does he that lends to such people, when he goes to get it again. Poor Dick farther advises, and says,

"Fond pride of dress is sure a very curse,  
Ere fancy you consult, consult your purse."

And again, "pride is as loud a beggar as want, and a great deal more saucy." When you have bought one thing fine, you must buy ten more, that your appearance may be all of a piece; but poor Dick says, "it is easier to suppress the first desire than to satisfy all that follow it;" and it is as

truly folly for the poor to ape the rich, as for the frog to swell, in order to equal the ox.

"Vessels large may venture wide,  
But little boats should keep near shore."

It is, however, a folly soon punished; for, as poor Richard says, "pride that dines on vanity, sups on contempt; pride breakfasted with plenty, dined with poverty, and supped with infamy." And, after all, of what use is this pride of appearance, for which so much is risked, so much is suffered? It cannot promote health, nor ease pain; it makes no increase of merit in the person; it creates envy, it hastens misfortunes.

'But what madness must it be to *run in debt* for these superfluities! We are offered, by the terms of this sale, six months credit; and that, perhaps, has induced some of us to attend it, because we cannot spare the ready money, and hope now to be fine without it. But ah! think what you do when you run in debt; you give to another power over your liberty. If you cannot pay at the time, you will be ashamed to see your creditor, you will be in fear when you speak to him, you will make poor, pitiful, sneaking excuses, and, by degrees, come to lose your veracity, and sink into base, downright lying; for, "the second vice is lying, the *first* is running in debt," as poor Richard says; and again, to the same purpose, "lying rides upon debt's back;" whereas a free-born Englishman ought not to be ashamed nor afraid to see or speak to any man living. But poverty often deprives a man of all spirit and virtue. . "It is hard for an empty bag to stand upright." What would you think of that prince, or of that government, who should issue an edict, forbidding you to dress like a gentleman or gentlewoman, on pain of imprisonment or servitude? Would you not say, that you were free, have a right to dress as you please, and that such an edict would be a

breach of your privileges, and such a government tyrannical? And yet you are about to put yourself under that tyranny; when you run in debt for such dress! Your creditor has authority, at his pleasure, to deprive you of your liberty, by confining you in a gaol for life, or by selling you for a servant, if you should not be able to pay him. When you have got your bargain, you may, perhaps, think little of payment; but, as poor Richard says, "creditors have better memories than debtors;" creditors are a superstitious sect, great observers of set days and times." The day comes round before you are aware, and the demand is made before you are prepared to satisfy it; or, if you bear your debt in mind, the term, which at first seemed so long, will, as it lessens, appear extremely short: time will seem to have added wings to his heels as well as his shoulders. "Those have a short Lent, who owe money to be paid at Easter." At present, perhaps, you may think yourselves in thriving circumstances, and that you can bear a little extravagance without injury; but

"For age and want save while you may,  
No morning sun lasts a whole day."

Gain may be temporary and uncertain, but ever, while you live, expense is constant and certain; and, "it is easier to build two chimneys, than to keep one in fuel," as poor Richard says: so, "rather go to bed supperless than rise in debt."

"Get what you can, and what you get hold,  
'Tis the stone that will turn all your lead into gold."

And when you have got the philosopher's stone, sure you will no longer complain of bad times, or the difficulty of paying taxes.

'IV. This doctrine, my friends, is reason and wisdom: but, after all, do not depend too much upon your own industry, and frugality, and prudence, though excellent things; for they may all be blasted, without the blessing

from heaven ; and therefore ask that blessing humbly, and be not uncharitable to those that at present seem to want it, but comfort and help them. Remember Job suffered, and was afterwards prosperous.

And now, to conclude, "experience keeps a dear school, but fools will learn in no other," as poor Richard says, and scarce in that ; for, it is true, "we may give advice, but we cannot give conduct :" however, remember this, "they that will not be counselled cannot be helped ;" and farther, that "if you will not hear reason, she will surely rap your knuckles," as poor Richard says.'

Thus the old gentleman ended his harangue. The people heard it and approved the doctrine ; and immediately practised the contrary, just as if it had been a common sermon, for the auction opened, and they began to buy extravagantly.—I found the good man had thoroughly studied my almanacks, and digested all I had dropt on those topics during the course of 25 years. The frequent mention he made of me must have tired any one else ; but my vanity was wonderfully delighted with it, though I was conscious, that not a tenth part of the wisdom was my own, which he ascribed to me, but rather the gleanings that I had made of the sense of all ages and nations. However, I resolved to be the better for the echo of it ; and, though I had at first determined to buy stuff for a new coat, I went away, resolved to wear my old one a little longer. Reader, if thou wilt do the same, thy profit will be as great as mine.

I am, as ever,  
Thine to serve thee,  
**RICHARD SAUNDERS.**

## 180 ADVICE TO A YOUNG TRADESMAN

### *Advice to a Young Tradesman.*

Written Anno 1748.

TO MY FRIEND A. B.

As you have desired it of me, I write the following hints, which have been of service to me, and may, if observed, be so to you.

Remember, that *time* is money. He, that can earn ten shillings a day by his labour, and goes abroad, or sits idle one half of that day, though he spends but sixpence during his diversions or idleness, ought not to reckon that the only expense ; he has really spent, or rather thrown away, five shillings besides.

Remember, that *credit* is money. If a man lets his money lie in my hands after it is due, he gives me the interest, or so much as I can make of it, during that time. This amounts to a considerable sum where a man has good and large credit, and makes good use of it.

Remember, that money is of a prolific generating nature. Money can beget money, and its offspring can beget more, and so on. Five shillings turned is six, turned again it is seven and three-pence, and so on till it becomes an hundred pounds. The more there is of it, the more it produces every turning, so that the profits rise quicker and quicker. He that kills a breeding sow destroys all her offspring to the thousandth generation. He that murders a crown destroys all that it might have produced, even scores of pounds.

Remember, that six pounds a year is but a groat a day. For this little sum (which may be daily wasted either in time or expense unperceived) a man of credit may, on his own security, have the constant possession and use of an hundred pounds. So much in stock, briskly turned by an industrious man, produces great advantage.

Remember this saying, "the good paymaster is lord of another man's purse." He that is known to pay punctually

and exactly to the time he promises may at any time, and on any occasion, raise all the money his friends can spare. This is sometimes of great use. After industry and frugality, nothing contributes more to the raising of a young man in the world than punctuality and justice in all his dealings: therefore, never keep borrowed money an hour beyond the time you promised, lest a disappointment shut up your friend's purse for ever.

The most trifling actions that affect a man's credit are to be regarded. The sound of your hammer at five in the morning, or nine at night, heard by a creditor, makes him easy six months longer: but if he sees you at a billiard table, or hears your voice at a tavern, when you should be at work, he sends for his money the next day; and demands it before he can receive it in a lump.

It shows, besides, that you are mindful of what you owe; it makes you appear a careful as well as an honest man, and that still increases your credit.

Beware of thinking all your own that you possess, and of living accordingly. It is a mistake that many people who have credit fall into. To prevent this, keep an exact account for some time, both of your expenses and your income. If you take the pains at first to mention particulars, it will have this good effect: you will discover how wonderfully small trifling expenses mount up to large sums, and will discern what might have been and may for the future be saved, without occasioning any great inconvenience.

In short, the way to wealth, if you desire it, is as plain as the way to market. It depends chiefly on two words, *industry* and *frugality*; that is, waste neither *time* nor *money*, but make the best use of both. Without industry and frugality nothing will do, and with them every thing. He that gets all he can honestly, and saves all he gets (necessary expenses excepted) will certainly become rich—if that Being who governs the world, to whom all should look for

a blessing on their honest endeavours, doth not, in his wise Providence, otherwise determine.

AN OLD TRADESMAN

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*Necessary Hints to those that would be Rich.*

Written Anno 1736.

The use of money is all the advantage there is in having money.

For six pounds a year you may have the use of one hundred pounds, provided you are a man of known prudence and honesty,

He that spends a groat a day idly, spends idly above six pounds a year, which is the price for the use of one hundred pounds.

He that wastes idly a groat's worth of his time per day, one day with another, wastes the privilege of using one hundred pounds each day.

He that idly loses five shillings worth of time, loses five shillings, and might as prudently throw five shillings into the sea.

He that loses five shillings, not only loses that sum, but all the advantages that might be made by turning it in dealing, which, by the time that a young man becomes old, will amount to a considerable sum of money.

Again: he that sells upon credit, asks a price for what he sells equivalent to the principal and interest of his money for the time he is to be kept out of it; therefore, he that buys upon credit, pays interest for what he buys, and he that pays ready money, might let that money out to use: so that he that possesses any thing he has bought, pays interest for the use of it.

Yet, in buying goods, it is best to pay ready money, be-

cause he that sells upon credit expects to lose five per cent. by bad debts; therefore he charges, on all he sells upon credit, an advance, that shall make up that deficiency.

Those who pay for what they buy upon credit, pay their share of this advance.

He that pays ready money, escapes, or may escape, that charge.

A penny say'd is two-pence clear,

A pin a day's a great a year.

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*The way to make Money plenty in every Man's Pocket.*

At this time, when the general complaint is, that "money is scarce," it will be an act of kindness to inform the moneyless how they may reinforce their pockets. I will acquaint them with the true secret of money-catching, the certain way to fill empty purses, and how to keep them always full. Two simple rules, well observed, will do the business.

First, let honesty and industry be thy constant companions; and

Secondly, spend one penny less than thy clear gains.

Then shall thy hide-bound pocket soon begin to thrive, and will never again cry with the empty belly-ache: neither will creditors insult thee, nor want oppress, nor hunger bite, nor nakedness freeze thee. The whole hemisphere will shine brighter, and pleasure spring up in every corner of thy heart. Now, therefore, embrace these rules and be happy. Banish the bleak winds of sorrow from thy mind, and live independent. Then shalt thou be a man, and not hide thy face at the approach of the rich, nor suffer the pain of feeling little when the sons of fortune walk at thy right hand: for independency, whether with little or much, is good fortune, and placeth thee on even ground with the

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proudest of the golden fleece. Oh, then, be wise, and let industry walk with thee in the morning, and attend thee until thou reachest the evening hour for rest. Let honesty be as the breath of thy soul, and never forget to have a penny when all thy expenses are enumerated and paid: then shalt thou reach the point of happiness, and independence shall be thy shield and buckler, thy helmet and crown; then shall thy soul walk upright, nor stoop to the silken wretch because he hath riches, nor pocket an abuse because the hand which offers it wears a ring set with diamonds.

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### *New Mode of Lending Money.*

*Paris, April 22, 1784.*

I send you herewith a bill for ten louis d'ors. I do not pretend to give such a sum. I only *lend* it to you. When you shall return to your country, you cannot fail getting into some business, that will in time enable you to pay all your debts. In that case, when you meet with another honest man in similar distress, you must *pay me* by lending this sum to him, enjoining him, to *discharge the debt* by a like operation, when he shall be able, and shall meet with such another opportunity. I hope it may thus go through many hands before it meet with a *knav*e to stop its progress. This is a trick of mine for doing a good deal with a little money. I am not rich enough to afford *much* in good works, and so am obliged to be cunning and make the most of a little.

B. FRANKLIN.

*An Economical Project.*

## TO THE AUTHORS OF THE JOURNAL.

**MESSIEURS,**

You often entertain us with accounts of new discoveries. Permit me to communicate to the public, through your paper, one that has lately been made by myself, and which I conceive may be of great utility.

I was the other evening in a grand company, where the new lamp of Messrs. Quinquet and Lange was introduced, and much admired for its splendour; but a general inquiry was made, whether the oil it consumed was not in proportion to the light it afforded, in which case there would be no saving in the use of it. No one present could satisfy us in that point, which all agreed ought to be known, it being a very desirable thing to lessen, if possible, the expense of lighting our apartments, when every other article of family expense was so much augmented.

I was pleased to see this general concern for economy, for I love economy exceedingly.

I went home, and to bed, three or four hours after midnight, with my head full of the subject. An accidental sudden noise waked me about six in the morning, when I was surprised to find my room filled with light, and I imagined, at first, that a number of those lamps had been brought into it: but, rubbing my eyes, I perceived the light came in at the windows. I got up and looked out to see what might be the occasion of it, when I saw the sun just rising above the horizon, from whence he poured his rays plentifully into my chamber, my domestic having negligently omitted the preceding evening to close the shutters.

I looked at my watch, which goes very well, and found that it was but six o'clock; and still thinking it something

extraordinary, that the sun should rise so early, I looked into the almanac, where I found it to be the hour given for his rising on that day. I looked forward too, and found he was to rise still earlier every day till towards the end of June; and that at no time in the year he retarded his rising so long as till eight o'clock. Your readers, who with me have never seen any signs of sunshine before noon, and seldom regard the astronomical part of the almanac, will be as much astonished as I was, when they hear of his rising so early; and especially when I assure them, *that he gives light as soon as he rises.* I am convinced of this. I am certain of my fact. One cannot be more certain of any fact. I saw it with my own eyes. And, having repeated this observation the three following mornings, I found always precisely the same result.

Yet so it happens, that when I speak of this discovery to others, I can easily perceive by their countenance, though they forbear expressing it in words, that they do not quite believe me. One, indeed, who is a learned natural philosopher, has assured me, that I must certainly be mistaken as to the circumstance of the light coming into my room; for it being well known, as he says, that there could be no light abroad at that hour, it follows that none could enter from without; and that of consequence, my windows being accidentally left open, instead of letting in the light, had only served to let out the darkness: and he used many ingenious arguments to show me how I might, by that means, have been deceived. I own, that he puzzled me a little, but he did not satisfy me; and the subsequent observations I made, as above mentioned, confirmed me in my first opinion.

This event has given rise in my mind to several serious and important reflections. I considered that, if I had not been awakened so early in the morning, I should have slept six hours longer by the light of the sun, and in exchange have

lived six hours the following night by candlelight ; and the latter being a much more expensive light than the former, my love of economy induced me to muster up what little arithmetic I was master of, and to make some calculations, which I shall give you, after observing that utility is, in my opinion, the test of value in matters of invention, and that a discovery which can be applied to no use, or is not good for something, is good for nothing.

I took for the basis of my calculation the supposition that there are 100,000 families in Paris, and that these families consume in the night half a pound of bougies, or candles, per hour. I think this is a moderate allowance, taking one family with another ; for though I believe some consume less, I know that many consume a great deal more. Then estimating seven hours per day, as the medium quantity between the time of the sun's rising and ours, he rising during the six following months from six to eight hours before noon, and there being seven hours of course per night in which we burn candles, the account will stand thus :—

In the six months between the twentieth of March and the twentieth of September, there are

Nights	- - - - -	183
Hours of each night in which we burn candles	- - - - -	7
Multiplication gives for the total number of hours	- - - - -	1,281
These 1,281 hours multiplied by 100,000, the number of inhabitants, give - - -	128,100,000	
One hundred twenty-eight millions and one hundred thousand hours at Paris by candle-light, which, at half a pound of wax and tallow per hour, gives the weight of - - - - -	64,050,000	

Sixty-four millions and fifty thousand of pounds, which, estimating the whole at the medium price of thirty sols the pound, makes the sum of ninety six millions and seventy-five thousand livres

tournois - - - - - 96,075,000

An immense sum ! that the city of Paris might save every year, by the economy of using sunshine instead of candles.

If it should be said, that people are apt to be obstinately attached to old customs, and that it will be difficult to induce them to rise before noon, consequently my discovery can be of little use ; I answer, *Nil desperandum*. I believe all who have common sense, as soon as they have learnt from this paper that it is day-light when the sun rises, will contrive to rise with him ; and, to compel the rest, I would propose the following regulations :

First. Let a tax be laid of a louis, per window, on every window that is provided with shutters to keep out the light of the sun.

Second. Let the same salutary operation of police be made use of to prevent our burning candles, that inclined us last winter to be more economical in burning wood ; that is, let guards be placed in the shops of the wax and tallow chandlers, and no family be permitted to be supplied with more than one pound of candles per week.

Third. Let guards also be posted to stop all the coaches, &c. that would pass the streets after sun-set, except those of physicians, surgeons, and midwives.

Fourth. Every morning, as soon as the sun rises, let all the bells in every church be set ringing ; and if that is not sufficient, let cannon be fired in every street, to wake the sluggards effectually, and make them open their eyes to see their true interest.

All the difficulty will be in the first two or three days :

after which the reformation will be as natural and easy as the present irregularity : for, *ce n'est que le premier pas qui coûte*. Oblige a man to rise at four in the morning, and it is more than probable he shall go willingly to bed at eight in the evening ; and, having had eight hours sleep, he will rise more willingly at four the morning following. But this sum of ninety-six millions and seventy-five thousand livres is not the whole of what may be saved by my economical project. You may observe, that I have calculated upon only one half of the year, and much may be saved in the other, though the days are shorter. Besides, the immense stock of wax and tallow left unconsumed during the summer will probably make candles much cheaper for the ensuing winter, and continue them cheaper as long as the proposed reformation shall be supported.

For the great benefit of this discovery, thus freely communicated and bestowed by me on the public, I demand neither place, pension, exclusive privilege, nor any other reward whatever. I except only to have the honour of it. And yet I know there are little envious minds who will, as usual, deny me this, and say, that my invention was known to the ancients ; and perhaps they may bring passages out of the old books in proof of it. I will not dispute with these people, that the ancients knew not the sun would rise at certain hours, they possibly had, as we have, almanacs that predicted it : but it does not follow from thence, that they knew *he gave light as soon as he rose*. This is what I claim as my discovery. If the ancients knew it, it might have been long since forgotten, for it certainly was unknown to the moderns, at least to the Parisians, which to prove, I need use but one plain simple argument. They are as well-instructed, judicious, and prudent a people as exist any where in the world, all professing, like myself, to be lovers of economy ; and, from the many heavy taxes required from them by the necessities of the state, have surely

an abundant reason to be economical. I say it is impossible, that so sensible a people, under such circumstances, should have lived so long by the smoky, unwholesome, and enormously expensive light of candles, if they had really known, that they might have had as much pure light of the sun for nothing.

I am, &c.

AN ABONNE

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*The Whistle.*

*Passy, Nov. 10, 1779.*

I received my dear friend's two letters, one for Wednesday, and one for Saturday. This is again Wednesday. I do not deserve one for to-day, because I have not answered the former. But indolent as I am, and averse to writing, the fear of having no more of your pleasing epistles, if I do not contribute to the correspondence, obliges me to tak up my pen: and as Mr. B. has kindly sent me word, that he sets out to-morrow to see you; instead of spending this Wednesday evening, as I have done its namesakes, in your delightful company, I sit down to spend it in thinking of you, in writing to you, and in reading over and over again your letters.

I am charmed with your description of Paradise, and with your plan of living there; and I approve much of your conclusion, that in the mean time, we should draw all the good we can from this world. In my opinion, we might all draw more good from it than we do, and suffer less evil, if we would but take care not to give too much for *whistles*, For to me it seems, that most of the unhappy people we meet with, are become so by neglect of that caution.

You ask what I mean. You love stories, and will excuse my telling one of myself.

When I was a child, at seven years old, my friends, on a holiday, filled my pocket with coppers. I went directly to a shop where they sold toys for children; and being charmed with the sound of a *whistle*, that I met by the way in the hands of another boy, I voluntarily offered him all my money for it. I then came home, and went whistling all over the house, much pleased with my *whistle*, but disturbing all the family. My brothers, and sisters, and cousins, understanding the bargain I had made, told me I had given four times as much for it as it was worth. This put me in mind what good things I might have bought with the rest of the money; and they laughed at me so much for my folly, that I cried with vexation; and the reflection gave me more chagrin, than the *whistle* gave me pleasure.

This, however, was afterwards of use to me, the impression continuing on my mind; so that often, when I was tempted to buy some unnecessary thing, I said to myself, *Don't give too much for the whistle*; and so I saved my money.

As I grew up, came into the world, and observed the actions of men, I thought I met with many, very many, who *gave too much for the whistle*.

When I saw any one too ambitious of court favours, sacrificing his time in attendance on levees, his repose, his liberty, his virtue, and perhaps his friends, to attain it, I have said to myself, *This man gives too much for his whistle*.

When I saw another fond of popularity, constantly employing himself in political bustles, neglecting his own affairs, and ruining them by that neglect, *He pays, indeed, says I, too much for his whistle*.

If I knew a miser, who gave up every kind of comfortable living, all the pleasures of doing good to others, all the esteem of his fellow-citizens, and the joys of benevolent

friendship, for the sake of accumulating wealth, *Poor man, says I, you pay too much for your whistle.*

When I meet a man of pleasure, sacrificing every laudable improvement of the mind, or of his fortune, to mere corporeal sensations, and ruining his health in their pursuit, *Mistaken man, says I, you are providing pain for yourself, instead of pleasure: you give too much for your whistle.*

If I see one fond of appearance, of fine clothes, fine houses, fine furniture, fine equipages, all above his fortune, for which he contracts debts, and ends his career in a prison, *Alas, says I, he has paid dear, very dear, for his whistle.*

When I see a beautiful, sweet-tempered girl, married to an ill-natured brute of a husband, *What a pity it is, says I, that she has paid so much for her whistle!*

In short, I conceived, that great part of the miseries of mankind were brought upon them by the false estimation they had made of the value of things, and by their giving too much for their *whistles*.

Yet I ought to have charity for these unhappy people, when I consider, that with all this wisdom of which I am boasting, there are certain things in the world so tempting, for example, the apples of King John, which happily are not to be bought; for if they were put to sale by auction, I might very easily be led to ruin myself in the purchase, and find, that I had once more given too much for the *whistle*.

Adieu, my dearest friend; and believe me ever yours very sincerely and with unalterable affection,

B. FRANKLIN.

*4 Petition to those who have the Superintendency of Education.*

I address myself to all the friends of youth, and conjure them to direct their compassionate regards to my unhappy fate, in order to remove the prejudices of which I am the victim. There are twin sisters of us; and the two eyes of man do not more resemble, nor are capable of being upon better terms with each other, than my sister and myself, were it not for the partiality of our parents, who make the most injurious distinctions between us. From my infancy, I have been led to consider my sister as a being of a more elevated rank. I was suffered to grow up without the least instruction, while nothing was spared in her education. She had masters to teach her writing, drawing, music, and other accomplishments; but if by chance I touched a pencil, a pen, or a needle, I was bitterly rebuked: and more than once I have been beaten for being awkward, and wanting a graceful manner. It is true, my sister associated me with her upon some occasions; but she always made a point of taking the lead, calling upon me only from necessity, or to figure by her side.

But conceive not, Sirs, that my complaints are instigated merely by vanity—No; my uneasiness is occasioned by an object much more serious. It is the practice in our family, that the whole business of providing for its subsistence falls upon my sister and myself. If any indisposition should attack my sister—and I mention it in confidence upon this occasion, that she is subject to the gout, the rheumatism, and cramp, without making mention of other accidents—what would be the fate of our poor family? Must not the regret of our parents be excessive, at having placed so great a difference between sisters, who are so perfectly equal? Alas! we must perish from distress for it would not be in my power even to

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scrawl a suppliant petition for relief, having been obliged to employ the hand of another in transcribing the request, which I have now the honour to prefer to you.

Condescend, Sirs, to make my parents sensible of the injustice of an exclusive tenderness, and of the necessity of distributing their care and affection among all their children equally.

I am, with a profound respect, Sirs,

Your obedient servant,

THE LEFT HAND

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### *The handsome and deformed Leg.*

There are two sorts of people in the world, who, with equal degrees of health and wealth, and the other comforts of life, become, the one happy, and the other miserable. This arises very much from the different views in which they consider things, persons, and events; and the effect of those different views upon their own minds.

In whatever situation men can be placed, they may find conveniences and inconveniences; in whatever company, they may find persons and conversation more or less pleasing: at whatever table, they may meet with meats and drinks of better and worse taste, dishes better and worse dressed; in whatever climate, they will find good and bad weather; under whatever government, they may find good and bad laws, and good and bad administration of those laws: in whatever poem, or work of genius, they may see faults and beauties; in almost every face, and every person, they may discover fine features and defects, good and bad qualities.

Under these circumstances, the two sorts of people above mentioned fix their attention, those who are disposed to be happy, on the conveniences of things, the pleasant parts of conversation, the well-dressed dishes, the goodness of the

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wines, the fine weather, &c. and enjoy all with cheerfulness. Those, who are to be unhappy, think and speak only of the contraries. Hence they are continually discontented themselves, and, by their remarks, sour the pleasures of society, offend personally many people, and make themselves every where disagreeable. If this turn of mind was founded in nature, such unhappy persons would be the more to be pitied. But as the disposition to criticise, and to be disgusted, is perhaps taken up originally by imitation, and is unawares grown into a habit, which, though at present strong, may nevertheless be cured, when those who have it are convinced of its bad effects on their felicity; I hope this little admonition may be of service to them, and put them on changing a habit, which, though in the exercise it is chiefly an act of imagination, yet has serious consequences in life, as it brings on real griefs and misfortunes. For, as many are offended by, and nobody loves, this sort of people, no one shows them more than the most common civility and respect, and scarcely that; and this frequently puts them out of humour, and draws them into disputes and contentions. If they aim at obtaining some advantage in rank or fortune, nobody wishes them success, or will stir a step, or speak a word, to favour their pretensions. If they incur public censure or disgrace, no one will defend or excuse, and many join to aggravate, their misconduct, and render them completely odious. If these people will not change this bad habit, and condescend to be pleased with what is pleasing, without fretting themselves and others about the contraries, it is good for others to avoid an acquaintance with them; which is always disagreeable, and sometimes very inconvenient, especially when one finds oneself entangled in their quarrels.

An old philosophical friend of mine was grown, from experience, very cautious in this particular, and carefully

avoided any intimacy with such people. He had, like other philosophers, a thermometer, to show him the heat of the weather, and a barometer, to mark when it was likely to prove good or bad ; but there being no instrument invented to discover, at first sight, this unpleasing disposition in a person, he, for that purpose, made use of his legs ; one of which was remarkably handsome, the other, by some accident, crooked, and deformed. If a stranger, at the first interview, regarded his ugly leg more than his handsome one, he doubted him. If he spoke of it, and took no notice of the handsome leg, that was sufficient to determine my philosopher to have no further acquaintance with him. Every body has not this two-legged instrument ; but every one, with a little attention, may observe signs of that carping, fault-finding disposition, and take the same resolution of avoiding the acquaintance of those infected with it. I therefore advise those critical, querulous, discontented, unhappy people, that, if they wish to be respected and beloved by others, and happy in themselves, they should *leave off looking at the ugly leg.*

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#### *Morals of Chess.*

Playing at chess is the most ancient and most universal game known among men ; for its original is beyond the memory of history, and it has, for numberless ages, been the amusement of all the civilised nations of Asia, the Persians, the Indians, and the Chinese. Europe has had it above a thousand years ; the Spaniards have spread it over their part of America, and it begins lately to make its appearance in these states. It is so interesting in itself, as not to need the view of gain to induce engaging in it ; and thence it is never played for money. Those, therefore,

who have leisure for such diversions, cannot find one that is more innocent ; and the following piece, written with a view to correct (among a few young friends) some little improprieties in the practice of it, shows, at the same time, that it may, in its effects on the mind, be not merely innocent, but advantageous, to the vanquished as well as the victor.

The game of chess is not merely an idle amusement. Several very valuable qualities of the mind, useful in the course of human life, are to be acquired or strengthened by it, so as to become habits, ready on all occasions. For life is a kind of chess, in which we have often points to gain, and competitors or adversaries to contend with, and in which there is a vast variety of good and ill events, that are, in some degree, the effects of prudence or the want of it. By playing at chess, then, we may learn,

I. *Foresight*, which looks a little into futurity, and considers the consequences that may attend an action : for it is continually occurring to the player, “ If I move this piece, what will be the advantage of my new situation ? What use can my adversary make of it to annoy me ? What other moves can I make to support it, and to defend myself from his attacks ? ”

II. *Circumspection*, which surveys the whole chess-board, or scene of action, the relations of the several pieces and situations, the dangers they are respectively exposed to, the several possibilities of their aiding each other, the probabilities that the adversary may take this or that move, and attack this or the other piece, and what different means can be used to avoid his stroke, or turn its consequences against him.

III. *Caution*, not to make our moves too hastily. This habit is acquired by observing strictly the laws of the game, such as, “ If you touch a piece, you must move it somewhere : if you set it down, you must let it stand : ” and it is

therefore best that these rules should be observed, as the game thereby becomes more the image of human life, and particularly of war ; in which, if you have incautiously put yourself into a bad and dangerous position, you cannot obtain your enemy's leave to withdraw your troops, and place them more securely, but you must abide all the consequences of your fashness.

And, lastly, we learn by chess the habit of *not being discouraged by present bad appearances in the state of our affairs*, the habit of *hoping for a favourable change*, and that of *persevering in the search of resources*. The game is so full of events, there is such a variety of turns in it, the fortune of it is so subject to sudden vicissitudes, and one so frequently, after long contemplation, discovers the means of extricating oneself from a supposed insurmountable difficulty, that one is encouraged to continue the contest to the last, in hopes of victory by our own skill, or at least of getting a stale mate, by the negligence of our adversary. And whoever considers, what in chess he often sees instances of, that particular pieces of success are apt to produce presumption, and its consequent inattention, by which the loss may be recovered, will learn not to be too much discouraged by the present success of his adversary, nor to despair of final good fortune upon every little check he receives in the pursuit of it.

That we may, therefore, be induced more frequently to choose this beneficial amusement, in preference to others, which are not attended with the same advantages, every circumstance which may increase the pleasures of it should be regarded ; and every action or word that is unfair, disrespectful, or that in any way may give uneasiness, should be avoided, as contrary to the immediate intention of both the players, which is to pass the time agreeably.

Therefore, first, if it is agreed to play according to the strict rules ; then those rules are to be exactly observed

by both parties, and should not be insisted on for one side, while deviated from by the other—for this is not equitable.

Secondly, if it is agreed not to observe the rules exactly, but one party demands indulgences, he should then be as willing to allow them to the other.

Thirdly, no false move should ever be made to extricate yourself out of difficulty, or to gain an advantage. There can be no pleasure in playing with a person once detected in such unfair practice.

Fourthly, if your adversary is long in playing, you ought not to hurry him, or express any uneasiness at his delay. You should not sing, nor whistle, nor look at your watch, nor take up a book to read, nor make a tapping with your feet on the floor, or with your fingers on the table, nor do any thing that may disturb his attention. For all these things displease; and they do not show your skill in playing, but your crafiness or your rudeness.

Fifthly, you ought not to endeavour to amuse and deceive your adversary, by pretending to have made bad moves, and saying, that you have now lost the game, in order to make him secure and careless, and inattentive to your schemes: for this is fraud and deceit, not skill in the game.

Sixthly, you must not, when you have gained a victory, use any triumphing or insulting expression, nor show too much pleasure; but endeavour to console your adversary, and make him less dissatisfied with himself, by every kind of civil expression, that may be used with truth, such as “you understand the game better than I, but you are a little inattentive;” or, “you play too fast;” or, “you had the best of the game, but something happened to divert your thoughts, and that turned it in my favour.”

Seventhly, if you are a spectator while others play, observe the most perfect silence. For if you give advice, you offend both parties; him against whom you give it, be-

cause it may cause the loss of his game, him in whose favour you give it, because, though it be good, and he follows it, he loses the pleasure he might have had, if you had permitted him to think until it had occurred to himself. Even after a move or moves, you must not, by replacing the pieces, show how it might have been placed better; for that displeases, and may occasion disputes and doubts about their true situation. All talking to the players lessens or diverts their attention, and is therefore unpleasing. Nor should you give the least hint to either party, by any kind of noise or motion. If you do, you are unworthy to be a spectator. If you have a mind to exercise or show your judgment, do it in playing your own game, when you have an opportunity, not in criticising, or meddling with, or counselling the play of others.

Lastly, if the game is not to be played rigorously, according to the rules abovementioned, then moderate your desire of victory over your adversary, and be pleased with one over yourself. Snatch not eagerly at every advantage offered by his unskilfulness or inattention; but point out to him kindly, that by such a move he places or leaves a piece in danger and unsupported; that by another he will put his king in a perilous situation, &c. By this generous civility (so opposite to the unfairness above forbidden) you may, indeed, happen to lose the game to your opponent, but you will win what is better, his esteem, his respect, and his affection, together with the silent approbation and good-will of impartial spectators.

## TO PROCURE PLEASANT DREAMS. 201

*The Art of procuring Pleasant Dreams.*

INSCRIBED TO MISS \*\*\*\*

*Being written at her request.*

As a great part of our life is spent in sleep, during which we have sometimes pleasing and sometimes painful dreams, it becomes of some consequence to obtain the one kind, and avoid the other; for, whether real or imaginary, pain is pain, and pleasure is pleasure. If we can sleep without dreaming, it is well that painful dreams are avoided. If, while we sleep, we can have any pleasing dreams, it is, as the French say, *tant gagné*, so much added to the pleasure of life.

To this end, it is, in the first place, necessary to be careful in preserving health, by due exercise, and great temperance; for in sickness, the imagination is disturbed; and disagreeable, sometimes terrible, ideas are apt to present themselves. Exercise should precede meals, not immediately follow them: the first promotes, the latter, unless moderate, obstructs digestion. If, after exercise, we feed sparingly, the digestion will be easy and good, the body lightsome, the temper cheerful, and all the animal functions performed agreeably. Sleep, when it follows, will be natural and undisturbed, while indolence, with full feeding, occasions night-mares, and horrors inexpressible; we fall from precipices, are assaulted by wild beasts, murderers and demons, and experience every variety of distress. Observe, however, that the quantity of food and exercise are relative things: those who move much may, and indeed ought, to eat more; those who use little exercise should eat little. In general, mankind, since the improvement of cookery, eat about twice as much as nature requires. Suppers are not bad, if we have not dined; but restless nights naturally follow hearty suppers, after full dinners. In-

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deed, as there is a difference in constitutions, some rest well after these meals ; it costs them only a frightful dream, and an apoplexy, after which they sleep till doomsday. Nothing is more common in the newspapers, than instances of people, who, after eating a hearty supper, are found dead a-bed in the morning.

Another means of preserving health, to be attended to, is the having a constant supply of fresh air in your bed-chamber. It has been a great mistake, the sleeping in rooms exactly closed, and in beds surrounded by curtains. No outward air that may come into you is so unwholesome, as the unchanged air, often breathed, of a close chamber. As boiling water does not grow hotter by longer boiling, if the particles that receive greater heat can escape ; so living bodies do not putrify, if the particles, as fast as they become putrid, can be thrown off. Nature expels them by the pores of the skin and the lungs, and in a free open air they are carried off ; but in a close room, we receive them again and again, though they become more and more corrupt. A number of persons crowded into a small room thus spoil the air in a few minutes, and even render it mortal, as in the Black Hole at Calcutta. A single person is said to spoil only a gallon of air per minute, and therefore requires a longer time to spoil a chamber full ; but it is done, however, in proportion, and many putrid disorders hence have their origin. It is recorded of Methuselah, who, being the longest liver, may be supposed to have best preserved his health, that he slept always in the open air ; for, when he had lived 500 years, an angel said to him :—" Arise, Methuselah, and build thee an house, for thou shalt live yet 500 years longer." But Methuselah answered and said, " If I am to live but 500 years longer, it is not worth while to build me an house—I will sleep in the air, as I have been used to do." Physicians, after having for ages contended, that

the sick should not be indulged with fresh air, have at length discovered, that it may do them good. It is therefore to be hoped, that they may in time discover likewise, that it is not hurtful to those who are in health, and that we may be then cured of the *aerophobia*, that at present distresses weak minds, and makes them choose to be stifled and poisoned, rather than leave open the window of a bed-chamber, or put down the glass of a coach.

Confined air, when saturated with perspirable matter \*, will not receive more; and that matter must remain in our bodies, and occasion diseases: but it gives some previous notice of its being about to be hurtful, by producing certain uneasinesses, slight indeed at first, such as, with regard to the lungs, is a trifling sensation, and to the pores of the skin a kind of restlessness, which is difficult to describe, and few that feel it know the cause of it. But we may recollect, that sometimes, on waking in the night, we have, if warmly covered, found it difficult to get asleep again. We turn often without finding repose in any position. This fidgettiness, to use a vulgar expression for want of a better, is occasioned wholly by an uneasiness in the skin, owing to the retention of the perspirable matter—the bed-clothes having received their quantity, and, being saturated, refusing to take any more. To become sensible of this by an experiment, let a person keep his position in the bed, but throw off the bed-clothes, and suffer fresh air to approach the part uncovered of his body; he will then feel that part suddenly refreshed: for the air will immediately relieve the skin, by receiving, licking up, and carry-

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\* What physicians call the perspirable matter, is that vapour which passes off from our bodies, from the lungs, and through the pores of the skin. The quantity of this is said to be five-eighths of what we eat.

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ing off, the load of perspirable matter that incommodes it. For every portion of cool air, that approaches the warm skin, in receiving its part of that vapour, receives therewith a degree of heat, that rarefies and renders it lighter, when it will be pushed away, with its burden, by cooler and therefore heavier fresh air; which, for a moment, supplies its place, and then, being likewise changed and warmed, gives way to a succeeding quantity. This is the order of nature, to prevent animals being infected by their own perspiration. He will now be sensible of the difference between the part exposed to the air, and that which, remaining sunk in the bed, denies the air access: for this part now manifests its uneasiness more distinctly by the comparison, and the seat of the uneasiness is more plainly perceived, than when the whole surface of the body was affected by it.

Here, then, is one great and general cause of unpleasing dreams. For when the body is uneasy, the mind will be disturbed by it, and disagreeable ideas of various kinds will, in sleep, be the natural consequences. The remedies, preventative and curative, follow:

1. By eating moderately (as before advised for health's sake) less perspirable matter is produced in a given time; hence the bed-clothes receive it longer before they are saturated; and we may, therefore, sleep longer, before we are made uneasy by their refusing to receive any more.

2. By using thinner and more porous bed-clothes, which will suffer the perspirable matter more easily to pass through them, we are less incommoded, such being longer tolerable

3. When you are awakend by this uneasiness, and find you cannot easily sleep again, get out of bed, beat up and turn your pillow, shake the bed clothes well, with at least twenty shakes, then throw the bed open, and leave it to cool; in the meanwhile, continuing undressed, walk about

## TO PROCURE PLEASANT DREAMS. 205

your chamber, till your skin has had time to discharge its load, which it will do sooner as the air may be drier and colder. When you begin to feel the cold air unpleasant, then return to your bed, and you will soon fall asleep, and your sleep will be sweet and pleasant. All the scenes presented to your fancy will be of the pleasing kind. I am often as agreeably entertained with them, as by the scenery of an opera. If you happen to be too indolent to get out of bed, you may, instead of it, lift up your bed-clothes with one arm and leg, so as to draw in a good deal of fresh air, and, by letting them fall, force it out again. This, repeated twenty times, will so clear them of the perspirable matter they have imbibed, as to permit your sleeping well for some time afterwards. But this latter method is not equal to the former.

Those who do not love trouble, and can afford to have two beds, will find great luxury in rising, when they wake in a hot bed, and going into the cool one. Such shifting of beds would also be of great service to persons ill of a fever, as it refreshes, and frequently procures sleep. A very large bed, that will admit a removal so distant from the first situation as to be cool and sweet, may in a degree answer the same end.

One or two observations more will conclude this little piece. Care must be taken when you lie down, to dispose your pillow so as to suit your manner of placing your head, and to be perfectly easy; then place your limbs so as not to bear inconveniently hard upon one another, as, for instance, the joints of your ankles; for though a bad position may at first give but little pain, and be hardly noticed, yet a continuance will render it less tolerable, and the uneasiness may come on while you are asleep, and disturb your imagination.

These are the rules of the art. But though they will generally prove effectual in producing the end intended,

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there is a case in which the most punctual observance of them will be totally fruitless. I need not mention the case to you, my dear friend, but my account of the art would be imperfect without it. The case is, when the person, who desires to have pleasant dreams, has not taken care to preserve, what is necessary above all things,

### A GOOD CONSCIENCE.

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TO DR. MATHER OF BOSTON.

*Effect of Early Impressions on the Mind.*

REV. SIR,

I received your kind letter, with your excellent advice to the people of the United States, which I read with great pleasure, and hope it will be duly regarded. Such writings, though they may be lightly passed over by many readers, yet, if they make a deep impression on one active mind in a hundred, the effects may be considerable.

Permit me to mention one little instance, which, though it relates to myself, will not be quite uninteresting to you. When I was a boy, I met with a book, entitled, "Essays to do Good," which I think was written by your father. It had been so little regarded by a former possessor, that several leaves of it were torn out; but the remainder gave me such a turn of thinking, as to have an influence on my conduct through life: for I have always set a greater value on the character of a doer of good, than any other kind of reputation; and if I have been, as you seem to think, a useful citizen, the public owe the advantage of it to that book.

You mention your being in your seventy-eighth year. I am in my seventy-ninth. We are grown old together. It is now more than sixty years since I left Boston; but I

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remember well both your father and grandfather, having heard them both in the pulpit, and seen them in their houses. The last time I saw your father was in the beginning of 1724, when I visited him after my first trip to Pennsylvania. He received me in his library ; and, on my taking leave, shewed me a shorter way out of the house, through a narrow passage, which was crossed by a beam overhead. We were still talking as I withdrew, he accompanying me behind, and I turning partly towards him, when he said hastily, " Stoop, stoop !" I did not understand him, till I felt my head hit against the beam. He was a man who never missed any occasion of giving instruction ; and upon this he said to me : " You are young, and have the world before you : stoop as you go through it, and you will miss many hard thumps." This advice, thus beat into my heart, has frequently been of use to me : and I often think of it, when I see pride mortified, and misfortunes brought upon people by their carrying their heads too high.

I long much to see again my native place ; and once hoped to lay my bones there. I left it in 1723. I visited it in 1733, 1743, 1753, and 1763 ; and in 1773, I was in England. In 1775, I had a sight of it, but could not enter, it being in possession of the enemy. I did hope to have been there in 1783, but could not obtain my dismission from this employment here ; and now I fear I shall never have that happiness. My best wishes, however, attend my dear country, "*estō perpetua.*" It is now blessed with an excellent constitution : may it last for ever !

This powerful monarchy continues its friendship for the United States. It is a friendship of the utmost importance to our security, and should be carefully cultivated. Britain has not yet well digested the loss of its dominion over us ; and has still at times some flattering hopes of recovering it. Accidents may increase those hopes, and encou-

rage dangerous attempts. A breach between us and France would infallibly bring the English again upon our backs: and yet we have some wild beasts among our countrymen, who are endeavouring to weaken that connection.

Let us preserve our reputation, by performing our engagements; our credit, by fulfilling our contracts; and our friends, by gratitude and kindness: for we know not how soon we may again have occasion for all of them.

With great and sincere esteem,

I have the honour to be,

Reverend Sir,

Your most obedient and most humble servant,

B. FRANKLIN.

*Passy, May 12, 1784.*

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TO JOHN ALLEYNE, ESQ.

*On early Marriages.*

DEAR JACK, Craven Street, Aug. 9, 1768.

You desire, you say, my impartial thoughts on the subject of an early marriage, by way of answer to the numberless objections, that have been made by numberless persons, to your own. You may remember, when you consulted me on the occasion, that I thought youth on both sides to be no objection. Indeed, from the marriages that have fallen under my observation, I am rather inclined to think, that early ones stand the best chance of happiness. The temper and habits of the young are not yet become so stiff and uncomplying, as when more advanced in life; they form more easily to each other, and hence many occasions of disgust are removed. And if youth has less of that prudence, which is necessary to manage a family, yet the parents and elder friends of young married persons are

generally at hand to afford their advice, which amply supplies that defect; and by early marriage, youth is sooner formed to regular and useful life; and possibly some of those accidents or connections, that might have injured the constitution, or reputation, or both, are thereby happily prevented. Particular circumstances of particular persons may possibly sometimes make it prudent to delay entering into that state; but in general, when nature has rendered our bodies fit for it, the presumption is in nature's favour, that she has not judged amiss in making us desire it. Late marriages are often attended too, with this further inconvenience, that there is not the same chance that the parents shall live to see their offspring educated. "Late children," says the Spanish proverb, "are early orphans." A melancholy reflection to those whose case it may be! With us in America, marriages are generally in the morning of life; our children are therefore educated and settled in the world by noon; and thus, our business being done, we have an afternoon and evening of cheerful leisure to ourselves, such as our friend at present enjoys. By these early marriages we are blessed with more children; and from the mode among us, founded by nature, of every mother suckling and nursing her own child, more of them are raised. Thence the swift progress of population among us, unparalleled in Europe. In fine, I am glad you are married, and congratulate you most cordially upon it. You are now in the way of becoming a useful citizen; and you have escaped the unnatural state of celibacy for life—the fate of many here, who never intended it, but who, having too long postponed the change of their condition, find, at length, that it is too late to think of it, and so live all their lives in a situation that greatly lessens a man's value. An odd volume of a set of books bears not the value of its proportion to the set: what think you of the odd half of a pair of scissars? it can-

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not well cut any thing ; it may possibly serve to scrape a trencher.

Pray make my compliments and best wishes acceptable to your bride. I am old and heavy, or I should ere this have presented them in person. I shall make but small use of the old man's privilege, that of giving advice to younger friends. Treat your wife always with respect ; it will procure respect to you, not only from her, but from all that observe it. Never use a slighting expression to her, even in jest ; for slights in jest, after frequent bandyings, are apt to end in angry earnest. Be studious in your profession, and you will be learned. Be industrious and frugal, and you will be rich. Be sober and temperate, and you will be healthy. Be in general virtuous, and you will be happy. At least, you will, by such conduct, stand the best chance for such consequences. I pray God to bless you both ! being ever your affectionate friend,

B. FRANKLIN.

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### TO MISS HUBBARD.

*On the Death of Mr. John Franklin.*

*Philadel. Feb. 23, 1756.*

I condole with you. We have lost a most dear and valuable relation. But it is the will of God and nature, that these mortal bodies be laid aside, when the soul is to enter into real life. This is rather an embryo state, a preparation for living. A man is not completely born until he be dead. Why then should we grieve, that a new child is born among the immortals, a new member added to their happy society ? We are spirits. That bodies should be lent us, while they can afford us pleasure, assist us in acquiring knowledge, or doing good to our fellow creatures, is a kind and benevolent act of God. When they

## STRIKING EMBLEM OF HUMAN LIFE. 21

become unfit for these purposes, and afford us pain instead of pleasure,—instead of an aid become an incumbrance, and answer none of the intentions for which they were given,—it is equally kind and benevolent, that a way is provided by which we may get rid of them. Death is that way. We ourselves, in some cases, prudently choose a partial death. A mangled painful limb, which cannot be restored, we willingly cut off. He, who plucks out a tooth, parts with it freely, since the pain goes with it: and he, who quits the whole body, parts at once with all pains, and possibilities of pains and diseases, it was liable to, or capable of making him suffer.

Our friend and we were invited abroad on a party of pleasure, which is to last for ever. His chair was ready first, and he is gone before us. We could not all conveniently start together: and why should you and I be grieved at this, since we are soon to follow, and know where to find him? Adieu.

B. FRANKLIN.

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### TO MADAME BRILLIANT.

*The Ephemera an Emblem of human Life.*

You may remember, my dear friend, that when we lately spent<sup>ed</sup> that happy day, in the delightful garden and sweet society of the Moulin Joly, I stopt a little in one of our walks, and staid some time behind the company. We had been shown numberless skeletons of a kind of little fly called an ephemeræ, whose successive generations, we were told, were bred and expired within the day. I happened to see a living company of them on a leaf, who appeared to be engaged in conversation. You know I understand all the inferior animal tongues: my too great application to

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the study of them is the best excuse I can give for the little progress I have made in your charming language. I listened through curiosity to the discourse of these little creatures ; but as they, in their national vivacity, spoke three or four together, I could make but little of their conversation. I found, however, by some broken expressions that I heard now and then, they were disputing warmly on the merit of two foreign musicians, one a *cousin*, the other a *muscheto*; in which dispute they spent their time, seemingly as regardless of the shortness of life, as if they had been sure of living a month. Happy people ! thought I, you live certainly under a wise, just, and mild government, since you have no public grievances to complain of, nor any subject of contention, but the perfections or imperfections of foreign music. I turned my head from them to an old-grey-headed one, who was single on another leaf, and talking to himself. Being amused with his soliloquy, I put it down in writing, in hopes it will likewise amuse her to whom I am so much indebted for the most pleasing of all amusements, her delicious company, and heavenly harmony.

" It was," says he, " the opinion of learned philosophers of our race, who lived and flourished long before my time, that this vast world, the *Moulin Joly*, could not itself subsist more than eighteen hours ; and I think there was some foundation for that opinion ; since, by the apparent motion of the great luminary, that gives life to all nature, and which in my time has evidently declined considerably towards the ocean at the end of our earth, it must then finish its course, be extinguished in the waters that surround us, and leave the world in cold and darkness, necessarily producing universal death and destruction. I have lived seven of those hours ; a great age, being no less than four hundred and twenty minutes of time. How very few of us continue so long ? I have seen generations born, flourish,

## STRIKING EMBLEM OF HUMAN LIFE. 213

and expire. My present friends are the children and grand-children of the friends of my youth, who are now, alas, no more ! And I must soon follow them ; for, by the course of nature, though still in health, I cannot expect to live above seven or eight minutes longer. What now avails all my toil and labour, in amassing honey-dew on this leaf, which I cannot live to enjoy ! What the political struggles I have been engaged in, for the good of my compatriot inhabitants of this bush, or my philosophical studies, for the benefit of our race in general ! for in politics (what can laws do without morals ?) our present race of ephemera will in a course of minutes become corrupt, like those of other and older bushes, and consequently as wretched : and in philosophy how small our progress ! Alas ! art is long, and life is short ! My friends would comfort me with the idea of a name, they say, I shall leave behind me ; and they tell me, I have lived long enough to nature and to glory. But what will fame be to an ephemera, who no longer exists ? and what will become of all history in the eighteenth hour, when the world itself, even the whole Moulin Joly, shall come to its end, and be buried in universal ruin ?"—

To me, after all my eager pursuits no solid pleasures now remain, but the reflection of a long life spent in meaning well, the sensible conversation of a few good lady ephemera, and now and then a kind smile and a tune from the ever amiable Brilliant.

B. FRANKLIN.

## 214 SKETCH OF AN ENGLISH SCHOOL.

### *Sketch of an English School; for the Consideration of the Trustees of the Philadelphia Academy.*

It is expected that every scholar, to be admitted into this school, be at least able to pronounce and divide the syllables in reading, and to write a legible hand. None to be received, that are under      years of age.

#### *First, or lowest Class.*

Let the first class learn the English grammar rules, and at the same time let particular care be taken to improve them in orthography. Perhaps the latter is best done by pairing the scholars; two of those nearest equal in their spelling to be put together. Let these strive for victory; each propounding ten words every day to the other to be spelled. He that spells truly most of the other's words is victor for that day; he that is a victor most days in a month, to obtain a prize, a pretty neat book of some kind, useful in their future studies. This method fixes the attention of children extremely to the orthography of words, and makes them good spellers very early. It is a shame for a man to be so ignorant of this little art, in his own language, as to be perpetually confounding words of like sound and different significations; the consciousness of which defect makes some men, otherwise of good learning and understanding, averse to writing even a common letter.

Let the pieces read by the scholars in this class be short; such as Crokal's fables, and little stories. In giving the lesson, let it be read to them; let the meaning of the difficult words in it be explained to them; and let them cover over by themselves before they are called to read to the master or usher, who is to take particular care, that they do not read too fast, and that they duly observe the stops and pauses. A vocabulary of the most usual difficult words might be formed for their use, with explanations; and they

## SKETCH OF AN ENGLISH SCHOOL. 215

might daily get a few of those words and explanations by heart, which would a little exercise their memories; or at least they might write a number of them in a small book for the purpose, which would help to fix the meaning of those words in their minds, and at the same time furnish every one with a little dictionary for his future use.

### *The Second Class*

To be taught reading with attention, and with proper modulations of the voice, according to the sentiments and the subject.

Some short pieces, not exceeding the length of a Spectator, to be given this class for lessons (and some of the easier Spectators would be very suitable for the purpose). These lessons might be given every night as tasks; the scholars to study them against the morning. Let it then be required of them to give an account, first of the parts of speech, and construction of one or two sentences. This will oblige them to recur frequently to their grammar, and fix its principal rules in their memory. Next, of the intention of the writer, or the scope of the piece, the meaning of each sentence, and of every uncommon word. This would early acquaint them with the meaning and force of words, and give them that most necessary habit, of reading with attention.

The master then to read the piece with the proper modulations of voice, due emphasis, and suitable action, where action is required; and put the youth on imitating his manner.

Where the author has used an expression not the best, let it be pointed out: and let his beauties be particularly remarked to the youth.

Let the lessons for reading be varied, that the youth may be made acquainted with good styles of all kinds, in prose and verse, and the proper manner of reading each kind—sometimes a well-told story, a piece of a sermon, a gene-

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ral's speech to his soldiers, a speech in a tragedy, some part of a comedy, an ode, a satire, a letter, blank verse, Hudibrastic, heroic, &c. But let such lessons be chosen for reading, as contain some useful instruction, whereby the understanding or morals of the youth may at the same time be improved.

It is required that they should first study and understand the lessons, before they are put upon reading them properly; to which end each boy should have an English dictionary, to help him over difficulties. When our boys read English to us, we are apt to imagine they understand what they read, because we do, and because it is their mother tongue. But they often read, as parrots speak, knowing little or nothing of the meaning. And it is impossible a reader should give the due modulation to his voice, and pronounce properly, unless his understanding goes before his tongue, and makes him master of the sentiment. Accustoming boys to read aloud what they do not first understand, is the cause of those even set tones, so common among readers, which, when they have once got a habit of using, they find so difficult to correct; by which means, among fifty readers we scarcely find a good one. For want of good reading, pieces published with a view to influence the minds of men, for their own or the public benefit, lose half their force. Were there but one good reader in a neighbourhood, a public orator might be heard throughout a nation with the same advantages, and have the same effect upon his audience, as if they stood within the reach of his voice.

### *The Third Class*

To be taught speaking properly and gracefully; which is near a-kin to good reading, and naturally follows it in the studies of youth. Let the scholars of this class begin with learning the elements of rhetoric from some short sys-

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tem, so as to be able to give an account of the most useful tropes and figures. Let all their bad habits of speaking, all offences against good grammar, all corrupt or foreign accents, and all improper phrases, be pointed out to them. Short speeches from the Roman, or other history, or from the parliamentary debates, might be got by heart, and delivered with the proper action, &c. Speeches and scenes in our best tragedies and comedies (avoiding every thing that could injure the morals of youth) might likewise be got by rote, and the boys exercised in delivering or acting them: great care being taken to form their manner after the truest models.

For their farther improvement, and a little to vary their studies, let them now begin to read history, after having got by heart a short table of the principal epochas in chronology. They may begin with Rollin's Ancient and Roman Histories, and proceed at proper hours, as they go through the subsequent classes, with the best histories of our own nation and colonies. Let emulation be excited among the boys, by giving, weekly, little prizes or other small encouragements, to those who are able to give the best account of what they have read, as to time, places, names of persons, &c. This will make them read with attention, and imprint the history well in their memories. In remarking on the history, the master will have fine opportunities of instilling instruction of various kinds, and improving the morals, as well as the understandings, of youth.

The natural and mechanic history, contained in the Spectacle de la Nature, might also be begun in this class, and continued through the subsequent classes, by other books of the same kind; for, next to the knowledge of duty, this kind of knowledge is certainly the most useful, as well as the most entertaining. The merchant may thereby be enabled better to understand many commodities in trade; the handicraftsman, to improve his business by

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new instruments, mixtures, and materials; and frequently hints are given for new manufactures, or new methods of improving land, that may be set on foot greatly to the advantage of a country.

### *The Fourth Class.*

To be taught composition. Writing one's own language well, is the next necessary accomplishment after good speaking. It is the writing-master's business, to take care that the boys make fair characters, and place them straight and even in the lines: but to form their style, and even to take care that the stops and capitals are properly disposed, is the part of the English master. The boys should be put on writing letters to each other on any common occurrences, and on various subjects, imaginary business, &c. containing little stories, accounts of their late reading, what parts of authors please them, and why; letters of congratulation, of compliment, of requests, of thanks, of recommendation, of admonition, of consolation, of expostulation, excuse, &c. In these, they should be taught to express themselves clearly, concisely, and naturally, without affected words or high-flown phrases. All their letters to pass through the master's hand, who is to point out the faults, advise the corrections, and commend what he finds right. Some of the best letters published in our own language, as Sir William Temple's, those of Pope and his friends, and some others, might be set before the youth as models, their beauties pointed out and explained by the master, the letters themselves transcribed by the scholar.

Dr. Johnson's *Ethicae Elementa*, or First Principles of Morality, may now be read by the scholars, and explained by the master, to lay a solid foundation of virtue and piety in their minds. And as this class continues the reading of history, let them now, at proper hours, receive some farther

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instruction in chronology, and in that part of geography (from the mathematical master) which is necessary to understand the maps and globes. They should also be acquainted with the modern names of the places they find mentioned in ancient writers. The exercises of good reading, and proper speaking, still continued at suitable times.

### *Fifth Class.*

To improve the youth in composition, they may now, besides continuing to write letters, begin to write little essays in prose, and sometimes in verse; not to make them poets, but for this reason, that nothing acquaints a lad so speedily with variety of expression, as the necessity of finding such words and phrases as will suit the measure, sound, and rhyme of verse, and at the same time well express the sentiment. These essays should all pass under the master's eye, who will point out their faults, and put the writer on correcting them. Where the judgment is not ripe enough for forming new essays, let the sentiments of a Spectator be given, and required to be clothed in the scholar's own words; or the circumstance of some good story, the scholar to find expression. Let them be put sometimes on abridging a paragraph of a diffuse author: sometimes on dilating or amplifying what is wrote more closely. And now let Dr. Johnson's Noetica, or First Principles of Human Knowledge, containing logic, or art of reasoning, &c. be read by the youth, and the difficulties, that may occur to them, be explained by the master. The reading of history, and the excrcises of good reading and just speaking, still continued.

### *Sixth Class.*

In this class, besides continuing the studies of the preceding in history, rhetoric, logic, moral and natural philosophy, the best English authors may be read and explained,

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as Tillotson, Milton, Locke, Addison, Pope, Swift, the higher papers in the Spectator and Guardian, the best translations of Homer, Virgil, and Horace, of Telemachus, Travels of Cyrus, &c.

Once a year, let there be public exercises in the hall; the trustees and citizens present. Then let fine gilt books be given as prizes to such boys as distinguish themselves, and excel the others in any branch of learning, making three degrees of comparison: giving the best prize to him that performs best, a less valuable one to him that comes up next to the best, and another to the third. Commendations, encouragement, and advice to the rest; keeping up their hopes, that, by industry, they may excel another time. The names of those, that obtain the prize, to be yearly printed in a list.

The hours of each day are to be divided and disposed in such a manner, as that some classes may be with the writing-master, improving their hands, others with the mathematical master, learning arithmetic, accounts, geography, use of the globes, drawing, mechanics, &c. while the rest are in the English school, under the English master's care.

Thus instructed, youth will come out of this school fitted for learning any business, calling, or profession, except such wherein languages are required: and, though unacquainted with any ancient or foreign tongue, they will be masters of their own, which is of more immediate and general use, and withal will have attained many other valuable accomplishments: the time usually spent in acquiring those languages, often without success, being here employed in laying such a foundation of knowledge and ability, as, properly improved, may qualify them to pass through and execute the several offices of civil life, with advantage and reputation to themselves and country

## TO MISS STEVENSON, AT WANSTEAD.

*Advice to Youth in Reading.*

Craven Street, May 17, 1760.

I send my good girl the books I mentioned to her last night. I beg her to accept of them, as a small mark of my esteem and friendship. They are written in the familiar easy manner for which the French are so remarkable, and afford a good deal of philosophic and practical knowledge, unembarrassed with the dry mathematics, used by more exact reasoners; but which is apt to discourage young beginners. I would advise you to read with a pen in your hand, and enter in a little book short hints of what you find, that is curious, or that may be useful; for this will be the best method of imprinting such particulars in your memory, where they will be ready, either for practice on some future occasion, if they are matters of utility, or at least to adorn and improve your conversation, if they are rather points of curiosity. And as many of the terms of science are such, as you cannot have met with in your common reading, and may therefore be unacquainted with, I think it would be well for you to have a good dictionary at hand, to consult immediately when you meet with a word you do not comprehend the precise meaning of. This may at first seem troublesome and interrupting; but it is a trouble that will daily diminish, as you will daily find less and less occasion for your dictionary as you become more acquainted with the terms; and in the mean time you will read with more satisfaction, because with more understanding. When any point occurs, in which you would be glad to have farther information than your book affords you, I beg you would not in the least apprehend, that I should think it a trouble to receive and answer your questions. It will be a pleasure, and no trouble. For though I may no

be able, out of my own little stock of knowledge, to afford you what you require, I can easily direct you to the books, where it may most readily be found. Adieu, and believe me ever, my dear friend,

Your's affectionately,

B. FRANKLIN.

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*An Allegorical Dream.*

In a dream, I thought myself in a solitary temple. I saw a kind of phantom coming towards me, but as he drew near his form expanded and became more than human ; his robe hung majestically down to his feet ; six wings, whiter than snow, whose extremities were edged with gold, covered a part of his body : then I saw him quit his material substance, which he had put on to avoid terrifying me ; his body was of all the colours in the rainbow. He took me by the hair, and I was sensible I was travelling in the æthereal plains without any dread, with the rapidity of an arrow sent from a bow, drawn by a supple and nervous arm. A thousand glowing orbs rolled beneath me : but I could only cast a rapid glance on all those globes distinguished by the striking colours with which they were diversified. I now suddenly perceived so beautiful, so flourishing, so fertile, a country, that I conceived a strong desire to alight upon it. My wishes were instantly gratified ; I felt myself gently landed on its surface, where I was surrounded by a balmy atmosphere. I found myself reposed at the dawn, upon the soft verdant grass. I stretched out my arms, in token of gratitude, to my celestial guide, who pointed to a resplendent sun, towards which swiftly rising, he disappeared in the luminous body. I arose, and imagined myself to be transported to the garden of Eden. Every thing inspired my soul with soft tranquillity. The most profound peace

covered this new globe ; nature was here ravishing and incorruptible, and a delicious freshness expanded my sense to ecstasy ; a sweet odour accompanied the air I breathed ; my heart, which beat with an unusual power, was immersed in a sea of rapture ; while pleasure, like a pure and immortal light, penetrated the inmost recesses of my soul. The inhabitants of this happy country came to meet me ; and, after saluting me, they took me by the hand. Their noble countenances inspired confidence and respect ; innocence and happiness were depicted in their looks ; they often lifted their eyes towards heaven, and as often uttered a name which I afterwards knew to be that of the Eternal, while their cheeks were moistened with tears of gratitude. I experienced great emotion while I conversed with these sublime beings. They poured out their hearts with the most sincere tenderness ; and the voice of reason most majestic, and no less melting, was at the same time conveyed to my enraptured ear. I soon perceived that this abode was totally different from that which I had left, A divine impulse made me fly into their arms :—I bowed my knees to them ; but being raised up in the most endearing manner, I was pressed to the bosoms which inclosed such excellent hearts, and I conceived a presentiment of celestial amity, of that amity which united their souls, and formed the greatest portion of their felicity. The angel of darkness, with all his artifice, was never able to discover the entrance into this world !—notwithstanding his ever-watchful malice, he never found out the means to spread his poison over this happy globe. Anger, envy, and pride, were there unknown ; the happiness of one appeared the happiness of all ; an ecstatic transport incessantly elevating their souls at the sight of the magnificent and bountiful hand which collected over their heads the most astonishing prodigies of the creation. The lovely Morning, with her humid saffron wings, distilled the pearly dew

from the shrubs and flowers, and the rays of the rising sun multiplied the most enchanting colours, when I perceived a wood embellished by the opening dawn. The youth of both sexes there sent forth hymns of adoration towards heaven ; and were filled at the same time with the grandeur and majesty of God, which rolled almost visibly over their heads ; for in this world of innocence, he vouchsafed to manifest himself by means unknown to our weak understandings. All things announced his august presence, the serenity of the air, the dyes of the flowers, the brilliancy of the insects, a kind of universal sensibility spread over all beings, whose vivified bodies seemed entirely susceptible of it. Every thing bore the appearance of sentiment ; and the birds stopped in the midst of their flight, as if attentive to the affecting modulations of their voices. But no pencil can express the ravishing countenance of the young beauties, whose bosoms breathed love. Who can describe that love of which we have not any idea, that love for which we have no name, that love, the lot of pure intelligent beings, divine love, which they only can conceive and feel ; the tongue of man, incapable, must be silent ! The remembrance of this enchanting place suspends at this moment all the faculties of my soul. The sun was rising—the pencil falls from my hand. O, Thomson, never did thy muse view such a sun ! What a world, and what magnificent order ! I trod, with regret, on the flowery plants, endued, like that we call sensitive, with a quick and lively feeling ; they bent under my foot, only to rise with more brilliancy : the fruit gently dropped, on the first touch, from the complying branch, and had scarcely gratified the palate when the delicious sensation of its juices was felt glowing in every vein ; the eye, more piercing, sparkled with uncommon lustre ; the ear was more lively ; the heart, which expanded itself over all nature, seemed to possess and enjoy its fertile extent : the universal enjoyment did not dis-

turb any individual ; for union multiplied their delights, and they esteemed themselves less happy in their own fruition than in the happiness of others. This sun did not resemble the comparative paleness and weakness which illuminates our gloomy terrestrial prison ; yet the eye could bear to gaze on it, and, in a manner, plunge itself in a kind of ecstasy in a mild and pure light ; it enlivened at once the sight and the understanding, and even penetrated the soul. The bodies of those fortunate persons became, as it were, transparent ; while each read in his brother's heart the sentiments of affability and tenderness with which himself was affected. There darted from the leaves of all the shrubs which the planet enlightened, a luminous matter, which resembled, at a distance, all the colours of the rainbow ; its orb, which was never eclipsed, was crowned with such sparkling rays that the daring prism of Newton could not divide. When this planet set, six brilliant moons floated in the atmosphere ; their progression in different orbits, each night, formed a new exhibition. The multitude of stars, which seem to us as if scattered by chance, were here seen in their true point of view, and the order of the universe appeared in all its pomp and splendour. In this happy country, when a man gave way to sleep, his body, which had none of the properties of terrestrial elements, gave no opposition to the soul, but contemplated in a vision, bordering on reality, the lucid region, the throne of the Eternal, to which it was soon to be elevated. Men awaked from a light slumber without perturbation or uneasiness ; enjoying futurity by a forcible sentiment of immortality, being intoxicated with the image of an approaching felicity, exceeding that which they already enjoyed. Grief, the fatal result of the imperfect sensibility of our rude frames, was unknown to these innocent men ; a light sensation warned them of the objects which could hurt them ; and nature removed them from the danger, as a ten-

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der mother would gently draw her child by the hand from a pitfall. I breathed more freely in this habitation of joy and concord; my existence became most valuable to me; but in proportion as the charms which surrounded me were lively, the greater was my sorrow when my ideas returned to the globe I had quitted. All the calamities of the human race united, as in one point, to overwhelm my heart, and I exclaimed piteously—“Alas! the world I inhabited formerly resembled yours: but peace, innocence, and chaste pleasures, soon vanished. Why was I not born among you? what a contrast! the earth which was my sorrowful abode is incessantly filled with tears and sighs; there the smaller number oppress the greater; the demon of property infects what he touches, and what he covets; Gold is there a God, and they sacrifice on his altar love, humanity, and the most valuable virtues. Shudder, you who hear me! the greatest enemy which man has is man; his chiefs are his tyrants; they make all things bend under the yoke of their pride or their captive; the charms of oppression are in a manner extended from pole to pole; a monster who assumes the mask of glory, makes lawful whatever is most horrible, violence and murder. Since the fatal invention of an inflammable powder, no mortal can say, to-morrow I shall repose in peace;—to-morrow the arm of despotism will not crush my head;—to-morrow dreadful sorrow will not depress my soul;—to-morrow the wailings of an useless despair, proceeding from a distressed heart, will not escape my lips, and tyranny bury me alive as in a stone coffin! Oh, my brethren! weep, weep over us! We are not only surrounded with chaitis and executioners, but are moreover dependent on the seasons, the elements, and the meanest insects. All nature rebels against us; and even if we subdue her, she makes us pay dearly for the benefits our labour forces from her. The bread we eat is earned by our tears and the sweat of our

brow ; then greedy men come and plunder us, to squander it on their idle favourites. Weep, weep with me, my brethren ! hatred pursues us ; revenge sharpens its poniard in the dark ; calumny brands us, and even deprives us of the power of making our defence ; the object of tenderness betrays our confidence, and forces us to curse this otherwise consolatory sentiment. We must live in the midst of all the strokes of wickedness, error, pride and folly. While my heart gave a free course to my complaints, I saw a band of shining seraphs descending from heaven ; on which, shouts of joy were immediately sent from the whole race of these fortunate beings. As I gazed with astonishment, I was accosted by an old man, who said, ‘ Farewell, my friend ! the moment of our death draws near ; or rather, that of a new life. The ministers of the God of clemency are come to take us away from this earth ; we are going to dwell in a world of still greater perfection.’

‘ Why, father,’ said I, ‘ are you then strangers to the agonies of death, the anguish, the pain, the dread, which accompany us in our last moments ? ’ ‘ Yes, my child,’ he replied, ‘ these angels of the Highest come at stated periods, and carry us all away, opening to us the road to a new world, of which we have an idea by the undoubted conviction of the unlimited bounty and magnificence of the Creator.’ A cheerful glow was immediately spread over their countenances ; their brows already seemed crowned with immortal splendour ; they sprang lightly from the earth in my sight ; I pressed the sacred hand of each for the last time, while with a smile they held out the other to the seraph, who had spread his wings to carry them to heaven. They ascended all at once, like a flock of beautiful swans, that, taking flight, raise themselves, with majestic rapidity, over the tops of our highest palaces. I gazed with sadness ; my eye followed them in the air, until their venerable heads were lost in the silver clouds, and I re-

mained alone on this magnificent deserted land. I perceived I was not yet fitted to dwell in it, and wished to return to this unfortunate world of expiation: thus the animal escaped from his keeper returns, following the track of his chain, with a mild aspect, and enters his prison. Awaking, the illusion was dispelled, which it is beyond the power of my weak tongue or pen to describe in its full splendour; but this illusion I shall for ever cherish; and, supported by the foundation of hope, I will preserve it till death, in the inmost recesses of my soul.

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*Two Letters to George Whatley, Esq. Treasurer of the Foundling Hospital, London.*

LETTER I.

DEAR OLD FRIEND, Passy, May 28, 1785.

I sent you a few lines the other day with the Medallion, when I should have written more, but was prevented by the coming in of a *bavard*, who worried me till evening. I bore with him, and now you are to bear with me, for I shall probably *baverder* in answering your letter.

I am not acquainted with the saying of Alphonsus, which you allude to as a sanctification of your rigidity, in refusing to allow me the plea of old age as an excuse for my want of exactitude in correspondence. What was that saying? You do not, it seems, feel any occasion for such an excuse, though you are, as you say, rising 75; but I am rising (perhaps more properly falling) 80—and I leave the excuse with you till you arrive at that age; perhaps you may then be more sensible of its validity, and see fit to use it for yourself.

I must agree with you, that the gout is bad, and that the stone is worse. I am happy in not having them both

together, and I join in your prayer, that you may live till you die without either. But I doubt the author of the epitaph you sent me is a little mistaken, when, speaking of the world, he says, that

—He ne'er cared a pin  
What they said or may say of the mortal within.

It is so natural to wish to be well spoken of, whether alive or dead, that I imagine he could not be quite exempt from that desire, and that at least he wished to be thought a wit, or he would not have given himself the trouble of writing so good an epitaph to leave behind him. Was it not worthy of his care, that the world should say he was an honest and a good man? I like better the concluding sentiment in the old song, called the Old Man's Wish, wherein, after wishing for a warm house in a country town, an easy horse, some good old authors, ingenious and cheerful companions, pudding on Sundays, with stout ale and a bottle of Burgundy, &c. &c. in separate stanzas, each ending with this burden,

May I govern my passions with absolute sway,  
And grow wiser and better as strength wears away,  
Without gout or stone, by a gentle decay;

he adds, for the last stanza,

With courage undaunted may I face my last day,  
And when I am gone may the better sort say,  
In the morning when sober, in the evening when mellow,  
He's gone—and not left behind him his fellow.  
For he govern'd his passions, &c.

What signifies our wishing? Things happen after all as they will happen. I have sung that *wishing song* a thousand times when I was young, and now find at fourscore, that the three contraries have befallen me, being subject to the gout, and the stone, and not being yet master of all my passions: like the proud girl in my country, who wished and resolved not to marry a parson, nor a

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Presbyterian, nor an Irishman, and at length found herself married to an Irish Presbyterian parson! You see I have some reason to wish that in a future state I may not only be *as well as I was*, but a little better. And I hope it: for I too, with your poet, *trust in God*. And when I observe, that there is great frugality as well as wisdom in his works, since he has been evidently sparing, both of labour and materials; for by the various wonderful invention of propagation, he has provided for the continual peopling his world with plants and animals without being at the trouble of repeated new creations; and by the natural reduction of compound substances to their original elements, capable of being employed in new compositions, he has prevented the necessity of creating new matter; for that the earth, water, air, and perhaps fire, which being compounded, form wood, do, when the wood is dissolved, return, and again, become air, earth, fire, and water:—I say, that when I see nothing annihilated, and not even a drop of water wasted, I cannot suspect the annihilation of souls, or believe that he will suffer the daily waste of millions of minds ready made that now exist, and put himself to the continual trouble of making new ones. Thus finding myself to exist in the world, I believe I shall in some shape or other always exist. And with all the inconveniences human life is liable to, I shall not object to a new edition of mine: hoping, however, that the errata of the last may be corrected.

I return your note of children received in the foundling hospital at Paris, from 1741 to 1755 inclusive, and I have added the years preceding, as far back as 1710, together with the general christenings of the city; and the years succeeding, down to 1770. Those since that period I have not been able to obtain. I have noted in the margin the gradual increase, viz. from every tenth child so thrown upon the public, till it comes to every third. Fifteen years

have passed since the last account, and probably it may now amount to one half. Is it right to encourage this monstrous deficiency of natural affection? A surgeon I met with here excused the women of Paris, by saying seriously, that they *could not* give suck; ‘*Car*,’ dit-il, ‘*elles n’ont point de tétons.*’ He assured me it was a fact, and bade me look at them, and observe how flat they were on the breast; ‘they have nothing more there,’ says he, ‘than I have upon the back of my hand.’ I have since thought that there might be some truth in his observation, and that possibly Nature, finding they made no use of bubbles, has left off giving them any. Yet since Rousseau, with admirable eloquence, pleaded for the rights of children to their mother’s milk, the mode has changed a little, and some ladies of quality now suckle their infants and find milk enough. May the mode descend to the lower ranks, till it becomes no longer the custom to pack their infants away, as soon as born, to the *Enfants Trouvés*, with the careless observation, that the king is better able to maintain them. I am credibly informed, that nine-tenths of them die there pretty soon; which is said to be a great relief to the institution, whose funds would not otherwise be sufficient to bring up the remainder. Except the few persons of quality above-mentioned, and the multitude who send to the hospital, the practice is to hire nurses in the country, to carry out the children and take care of them there. Here is an office for examining the health of nurses and given them licences. They come to town on certain days of the week, in companies, to receive the children, and we often meet trains of them on the road returning to the neighbouring villages, with each a child in arms. But those who are good enough to try this way of raising their children are often not able to pay the expence, so that the prisons of Paris are crowded with wretched fathers and mothers, confined *pour mois de nourrice*; though

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it is laudably a favourite charity to pay for them, and set such prisoners at liberty. I wish success to the new project of assisting the poor to keep their children at home, because I think there is no nurse like a mother (or not many) and that if parents did not immediately send their fants out of their sight, they would in a few days begin to love them, and thence be spurred to greater industry for their maintenance. This is a subject you understand better than I, and therefore, having perhaps said too much, I drop it. I only add to the notes a remark from the history of the Academy of Sciences, much in favour of the founding institution.

The Philadelphia bank goes on, as I hear, very well. What you call the Cincinnati Institution is no institution of our government, but a private convention among the officers of our late army, and so universally disliked by the people, that it is supposed it will be dropped. It was considered as an attempt to establish something like an hereditary rank or nobility. I hold with you that it was wrong; may I add, that all descending honours are wrong and absurd; that the honour of virtuous actions appertains only to him that performs them, and is in its nature incommunicable. If it were communicable by descent, it must also be divisible among the descendants, and the more ancient the family the less would be found existing in any one branch of it; to say nothing of the greater chance of unlucky interruptions.

Our constitution seems not to be well understood with you. If the congress were a permanent body, there would be more reason in being jealous of giving it powers. But its members are chosen annually, and cannot be chosen more than three years successively, nor more than three years in seven, and any of them may be recalled at any time, whenever their constituents shall be dissatisfied with their conduct. They are of the people, and return again

to mix with the people, having no more durable pre-eminence than the different grains of sand in an hour-glass. Such an assembly cannot easily become dangerous to liberty. They are the servants of the people, sent together to do the people's business and promote the public welfare: their powers must be sufficient, or their duties cannot be performed. They have no profitable appointments, but a mere payment of daily wages, such as are scarcely equivalent to their expenses, so that having no chance for great places and enormous salaries or pensions, as in some countries there is no bringing or bribing for elections. I wish old England were as happy in its government, but I do not see it. Your people, however, think their constitution the best in the world, and affect to despise ours. It is comfortable to have a good opinion of one's self, and of every thing that belongs to us, to think one's own religion king, and wife, the best of all possible wives, kings and religions. I remember three Greenlanders, who had travelled two years in Europe, under the care of some Moravian missionaries, and had visited Germany, Denmark, Holland, and England, when I asked them at Philadelphia (when they were in their way home) whether, now they had seen how much more commodiously the white people lived by the help of the arts, they would not choose to remain among us? Their answer was, that they were pleased with having had an opportunity of seeing many fine things, *but they chose to live in their own country*: which country, by the way, consisted of rock only, for the Moravians were obliged to carry earth in their ship from New York, for the purpose of making there a cabbage garden!

By Mr Dollond's\* saying, that my double spectacles could only serve particular eyes, I doubt he has not been

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\* An eminent mathematical instrument-maker in London.

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rightly informed of their construction. I imagine it will be found pretty generally true, that the same convexity of glass through which a man sees clearest and best at the distance proper for reading, is not the best for greater distances. I therefore had formerly two pair of spectacles, which I shifted occasionally, as in travelling I sometimes read and often wanted to regard the prospects. Finding this change troublesome, and not always sufficiently ready, I had the glasses cut out, and half of each kind associated in the same circle, the least convex, for distant objects; the upper half, and the most convex, for reading, the lower half: by this means, as I wear my spectacles constantly, I have only to move my eyes up or down, as I want to see distinctly far or near, the proper glasses being always ready. This I find more particularly convenient since my being in France; the glasses that serve me best at table to see what I eat, being the best to see the faces of those on the other side of the table who speak to me, and when one's ears are not well accustomed to the sounds of a language, a sight of the movements in the features of him that speaks helps to explain: so that I understand French better by the help of my spectacles.

My intended translator of your piece, the only one I know who understands the subject as well as the two languages, which a translator ought to do, or he cannot make so good translation, is at present occupied in an affair that prevents his undertaking it; but that will soon be over. I thank you for the notes. I should be glad to have another of the printed pamphlets.

We shall always be ready to take your children, if you send them to us: I only wonder, that since London draws to itself and consumes such numbers of your country people, your country should not, to supply their places, want and willingly receive the children you have to dispose of. That circumstance, together with the multitude who volun-

tarily part with their freedom as men, to serve for a time as lacqueys, or for life as soldiers, in consideration of small wages, seems to me a proof that your island is over-peopled, and yet it is afraid of emigrations! Adieu, my dear friend, and believe me ever

Your's, very affectionately,

B. FRANKLIN.

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## LETTER II.

*Philadelphia, May 18, 1787.*

I received duly my good old friend's letter of the 19th of February, with a copy of one from Mr. Williams, to whom I shall communicate it when I see him, which I expect soon to do. He is generally a punctual correspondent, and I am surprised you have not heard from him.

I thank you much for your notes on banks; they are just and solid, as far as I can judge of them. Our bank here has met with great opposition, partly from envy, and partly from those who wish an emission of more paper-money, which they think the bank influence prévents. But it has stood all attacks, and went on well; notwithstanding the assembly repealed its charter; a new assembly has restored it; and the management is so prudent, that I have no doubt of its continuing to go on well. The dividend has never been less than 6 per cent, nor will that be augmented for some time, as the surplus profit is reserved to face accidents. The dividend of 11 per cent, which was once made, was from a circumstance scarce avoidable. A new company was proposed, and prevented only by admitting a number of new partners. As many of the first set were averse to this, and chose to withdraw, it was necessary to settle their accounts; so all were

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adjusted, the profits shared that had been accumulated, and the new and old proprietors jointly began on a new and equal footing. Their notes are always instantly paid on demand, and pass on all occasions as readily as silver; because they will always produce silver.

Your medallion is in good company; it is placed with those of Lord Chatham, Lord Camden, Marquis of Rockingham, Sir George Savil, and some others, who honoured me with a share of friendly regard when in England, I believe I have thanked you for it, but I thank you again.

I believe with you, that if our plenipotentiary is desirous of concluding a treaty of commerce, he may need patience. But if I were in his place, and not otherwise instructed, I should be apt to say, Take your own time, gentlemen. If the treaty cannot be made as much to your advantage as to ours, don't make it. I am sure the want of it is not more to our disadvantage than to yours. Let the merchants on both sides treat with one another. *Laissez les faire.*

I have never considered attentively the congress' scheme for coining, and I have it not now at hand, so that at present I can say nothing to it. The chief uses of coining seem to be ascertaining the fineness of the metals, and saving the time that would otherwise be spent in weighing to ascertain the quantity. But the convenience of fixed values to pieces is so great as to force the currency of some whose stamp is worn off, that should have assured their fineness, and which are evidently not of half their due weight; this is the case at present with the sixpences in England, which one with another do not weigh threepence.

You are now 78, and I am 82. You tread fast upon my heels: but, though you have more strength and spirit, you cannot come up with me till I stop; which must now be soon; for I am grown so old as to have buried most of the friends of my youth; and I now often hear persons, whom I knew when children, called *old* Mr. such a one, to dis-

tinguish them from their sons now men grown, and in business; so that by living twelve years beyond *David's* period, I seem to have intruded myself into the company of posterity, when I ought to have been a-bed and asleep. Yet had I gone at 70, it would cut off 12 of the most active years of my life, employed too in matters of the greatest importance; but whether I have been doing good or mischief, is for time to discover. I only know that I intended well, and I hope all will end well.

Be so good as to present my affectionate respects to Dr. Rowley. I am under great obligations to him, and shall write to him shortly. It will be a pleasure to him to hear that my malady does not grow sensibly worse, and that is a great point: for it has always been so tolerable, as not to prevent my enjoying the pleasures of society, and being cheerful in conversation. I owe this in a great measure to his good counsels.

Adieu, my dear friend, and believe me ever,

Your's, most affectionately,

B. FRANKLIN

*Geo. Whatley, Esq.*

*Dialogue between Franklin and the Gout; translated from the French.\**

*Midnight, Oct. 22, 1780.*

*Franklin.* Eh ! Oh ! Eh ! What have I done to merit these cruel sufferings ?

*Gout.* Many things; you have ate and drank too freely,

\* For this translation the editor is indebted to "the complete works, in Philosophy, Politics, and Morals, of the late Dr. Benjamin Franklin," in three volumes octavo.

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and too much indulged those legs of yours in their indolence.

*Franklin.* What is that accuses me?

*Gout.* It is I, even I, the gout.

*Franklin.* What! my enemy in person?

*Gout.* No, not your enemy.

*Franklin.* I repeat it; my enemy: for you would not only torment my body to death, but ruin my good name: you reproach me as a glutton and tippler; now all the world that knows me will allow, that I am neither the one nor the other.

*Gout.* The world may think as it pleases: it is always very complaisant to itself, and sometimes to its friends; but I very well know, that the quantity of meat and drink proper for a man, who takes a reasonable degree of exercise, would be too much for another, who never takes any.

*Franklin.* I take—Eh! Oh!—as much exercise—Eh!—as I can, Madam Gout. You know my sedentary state, and on that account, it would seem, Madam Gout, as if you might spare me a little, seeing it is not altogether my own fault.

*Gout.* Not a jot: your rhetoric and your politeness are thrown away; your apology avails nothing. If your situation in life is a sedentary one, your amusements, your recreations, at least, should be active. You ought to walk or ride; or, if the weather prevents that, play at billiards. But let us examine your course of life. While the mornings are long, and you have leisure to go abroad, what do you do? Why, instead of gaining an appetite for breakfast, by salutary exercise, you amuse yourself with books, pamphlets, or newspapers, which commonly are not worth the reading. Yet you eat an inordinate breakfast, four dishes of tea, with cream, and one or two buttered toasts, with slices of hung beef, which I fancy are not things the most easily digested. Immediately afterwards you sit down

to write at your desk, or converse with persons who apply to you on business. Thus the time passes till one, without any kind of bodily exercise. But all this I could pardon, in regard, as you say, to your sedentary condition. But what is your practice after dinner? Walking in the beautiful gardens of those friends with whom you have dined would be the choice of men of sense: yours is to be fixed down to chess, where you are found engaged for two or three hours! This is your perpetual recreation, which is the least eligible of any for a sedentary man, because, instead of accelerating the motion of the fluids, the rigid attention it requires, helps to retard the circulation and obstruct internal secretions. What is in the speculations of this wretched game, you destroy your constitution? What can be expected from such a course of living, but a body replete with stagnant humours, ready to fall a prey to all kinds of dangerous maladies, if I, the gout, did not occasionally bring you relief by agitating these humours and so purifying or dissipating them? If it was in some nook or alley of Paris, deprived of walks, that you played awhile at chess after dinner, this might be excusable; but the same taste prevails with you in Fassy, Auteuil, Montmartre, or Sanoy, places where there are the finest gardens and walks, a pure air, beautiful women, and most agreeable and instructive conversation; all which you might enjoy by frequenting the walks! But these are rejected for this abominable game of chess. Fie, then, Mr. Franklin! But amidst my instructions, I had almost forgot to administer my wholesome corrections! so take that twinge—and that.

*Franklin.* Oh! Eh! Oh!—Ohhh! As much instruction as you please, Madam Gout, and as many reproaches; but pray, Madam, a truce with your corrections!

*Gout.* No, sir, no—I will not abate a particle of what is so much for your good—therefore——

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*Franklin.* Oh! Ehhh!—It is not fair to say I take no exercise, when I do very often, going out to dine, and returning in my carriage.

*Gout.* That, of all imaginary exercise, is the most slight and insignificant, if you allude to the motion of a carriage suspended on springs. By observing the degree of heat obtained by different kinds of motion, we may form an estimate of the quantity of exercise given by each. Thus, for example, if you turn out to walk in winter with cold feet, in an hour's time you will be in a glow all over; ride on horseback, the same effect will scarcely be perceived by four hours round trotting: but if you loll in a carriage, such as you have mentioned, you may travel all day, and gladly enter the last inn to warm your feet by a fire. Flatter yourself then no longer, that half an hour's airing in your carriage deserves the name of exercise. Providence has appointed few to roll in carriages, while he has given to all a pair of legs, which are machines infinitely more commodious and serviceable. Be grateful, then, and make a proper use of yours. Would you know, how they forward the circulation of your fluids, in the very action of transporting you from place to place? observe, when you walk, that all your weight is alternately thrown from one leg to the other; this occasions a great pressure on the vessels of the foot, and repels their contents. When relieved, by the weight being thrown on the other foot, the vessels of the first are allowed to replenish, and by a return of this weight, this repulsion again succeeds; thus accelerating the circulation of the blood. The heat produced in any given time depends on the degree of this acceleration: the fluids are shaken, the humours attenuated, the secretions facilitated, and all goes well; the cheeks are ruddy, and health is established. Behold your fair friend at Auteuil: a lady who received from bounteous nature more really useful science, than half a dozen such pretenders to philosophy.

as you have been able to extract from all your books. When she honours you with a visit, it is on foot. She walks all hours of the day, and leaves indolence and its concomitant maladies to be endured by her horses. In this see at once the preservative of her health and personal charms. But you, when you go to Auteuil, must have your carriage, though, it is no farther from Passy to Auteuil, than from Auteuil to Passy.

*Franklin.* Your reasonings grow very tiresome.

*Gout.* I stand corrected. I will be silent, and continue my office: take that, and that.

*Franklin.* Oh ! Ohh ! Talk on, I pray you !

*Gout.* No, no; I have a good number of twinges for you to-night, and you may be sure of some more to-morrow.

*Franklin.* What, with such a fever ! I shall go distracted. Oh ! Eh ! Can no one bear it for me ?

*Gout.* Ask that of your horses; they have served you faithfully.

*Franklin.* How can you so cruelly sport with my torments ?

*Gout.* Sport ! I am very serious. I have here a list of your offences against your own health distinctly written, and can justify every stroke inflicted on you.

*Franklin.* Read it then.

*Gout.* It is too long a detail; but I will briefly mention some particulars.

*Franklin.* Proceed—I am all attention.

*Gout.* Do you remember now often you have promised yourself, the following morning, a walk in the grove of Boulogne, in the garden de la Muette, or in your own garden, and have violated your promise, alleging, at one time, it was too cold, at another too warm, too windy, too moist, or what else you pleased; when in truth it was too nothing, but your insuperable love of ease ?

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*Franklin.* That I confess may have happened occasionally, probably ten times in a year.

*Gout.* Your confession is very short of the truth; the gross amount is one hundred and ninety-nine times.

*Franklin.* Is it possible?

*Gout.* So possible, that it is fact; you may rely on the accuracy of my statement. You know Mr. B——'s garden, and what fine walks they contain; you know the handsome flight of an hundred steps, which lead from the terrace above to the lawn below. You have been in the practice of visiting this amiable family twice a week after dinner, and as it is a maxim of your own, that "a man may take as much exercise in walking a mile up and down stairs, as in ten on level ground," what an opportunity was here for you to have had exercise in both these ways? Did you embrace it, and how often?

*Franklin.* I cannot immediately answer that question.

*Gout.* I will do it for you; not once.

*Franklin.* Not once?

*Gout.* Even so. During the summer you went there at six o'clock. You found the charming lady, with her lovely children and friends, eager to walk with you, and entertain you with their agreeable conversation: and what has been your choice? Why to sit on the terrace, satisfying yourself with the fine prospect, and passing your eye over the beauties of the garden below, without taking one step to descend and walk about in them. On the contrary, you call for tea, and the chess-board; and lo! you are occupied in your seat till nine o'clock, and that besides two hour's play after dinner; and then, instead of walking home, which would have bestirred you a little, you step into your carriage. How absurd to suppose, that all this carelessness can be reconcileable with health, without my interposition!

*Franklin.* I am convinced now of the justness of poor-

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Richard's remark, that "our debts and our sins are always greater than we think for."

*Gout.* So it is ! you philosophers are sages in your maxima, and fools in your conduct.

*Franklin.* But do you charge among my crimes that I return in a carriage from Mr. B——'s ?

*Gout.* Certainly : for having been seated all the while, you cannot object the fatigue of the day, and cannot want therefore the relief of a carriage.

*Franklin.* What then would you have me do with my carriage ?

*Gout.* Burn it, if you choose ; you would at least get heat out of it once in this way ; or if you dislike that proposal, here's another for you : observe the poor peasants who work in the vineyards and grounds about the villages of Passy, Auteuil, Chaillot, &c. you may find every day among these deserving creatures, four or five old men and women, bent and perhaps crippled by weight of years, and too long and too great labour. After a most fatiguing day, these people have to trudge a mile or two to their smoky huts. Order your coachman to set them down. That is an act that will be good for your soul ; and at the same time, after your visit to the B——'s, if you return on foot, that will be good for your body.

*Franklin.* Ah ! how tiresome you are.

*Gout.* Well then, to my office ; it should not be forgotten, that I am your physician. There.

*Franklin.* Ohhh ! what a devil of a physician !

*Gout.* How ungrateful are you to say so ! Is it not I, who, in the character of your physician, have saved you from the palsy, dropsy, and apoplexy ? one or other of which would have done for you long ago, but for me.

*Franklin.* I submit, and thank you for the past, but intreat the discontinuance of your visits for the future : for in my mind one had better die, than be cured so dolefully

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Permit me just to hint, that I have also not been unfriendly to you. I never feed physician, or quack of any kind, to enter the list against you; if then you do not leave me to my repose, it may be said you are ungrateful too.

*Gout.* I can scarcely acknowledge that as any objection. As to quacks, I despise them: they may kill you, indeed, but cannot injure me. And as to regular physicians, they are at last convinced, that the gout, in such a subject as you are, is no disease, but a remedy; and wherefore cure a remedy?—but to our business. There.

*Franklin.* Oh! Oh! for heaven's sake, leave me; and I promise faithfully never more to play at chess, but to take exercise daily, and live temperately.

*Gout.* I know you too well. You promise fair; but, after a few months, of good health, you will return to your old habits; your fine promises will be forgotten, like the forms of the last year's clouds. Let us then finish the account, and I will go. But I leave you, with an assurance of visiting you again at a proper time and place; for my object is your good, and you are sensible now that I am your real friend.

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### *Singular Custom among the Americans, entitled White-Washing.*

DEAR SIR,

My wish is to give you some account of the people of these new states, but I am far from being qualified for the purpose, having as yet seen little more than the cities of New York and Philadelphia. I have discovered but few national singularities among them. Their customs and manners are nearly the same with those of England, which they have long been used to copy. For, previous to the revolution, the Americans were from their infancy taught

to look up to the English as patterns of perfection in all things. I have observed, however, one custom, which, for aught I know, is peculiar to this country. An account of it will serve to fill up the remainder of this sheet, and may afford you some amusement.

When a young couple are about to enter into the matrimonial state, a never-failing article in the marriage-treaty is, that the lady shall have and enjoy the free and unmolested exercise of the rights of *white-washing*, with all its ceremonials, privileges, and appurtenances. A young woman would forego the most advantageous connexion, and even disappoint the warmest wish of her heart, rather than resign the invaluable right. You would wonder what this privilege of *white-washing* is: I will endeavour to give you some idea of the ceremony, as I have seen it performed.

There is no season of the year in which the lady may not claim her privilege, if she pleases; but the latter end of May is most generally fixed upon for the purpose. The attentive husband may judge by certain prognostics when the storm is nigh at hand. When the lady is unusually fretful, finds fault with the servants, is discontented with the children, and complains much of the filthiness of every thing about her—these are signs which ought not to be neglected; yet they are not decisive, as they sometimes come on and go off again, without producing any farther effect. But if, when the husband rises in the morning, he should observe in the yard a wheel-barrow with a quantity of lime in it, or should see certain buckets with lime dissolved in water, there is then no time to be lost; he immediately locks up the apartment or closet where his papers or his private property is kept, and putting the key in his pocket, betakes himself to flight: for a husband, however beloved, becomes a perfect nuisance during this season of female rage; his authority is superseded, his commission is suspended, and the very scullion, who cleans the brasses

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in the kitchen, becomes of more consideration and importance than him. He has nothing for it, but to abdicate, and run from an evil which he can neither prevent nor mollify.

The husband gone, the ceremony begins. The walls are in a few minutes stripped of their furniture; paintings, prints, and looking-glasses, lie in a huddled heap about the floors; the curtains are torn from the testers, the beds crammed into the windows; chairs and tables, bedsteads and cradles, crowd the yard; and the garden fence bends beneath the weight of carpets, blankets, cloth cloaks, old coats, and ragged breeches. *Here* may be seen the humbler of the kitchen, forming a dark and confused mass: for the fore-ground of the picture, gridirons and frying pans, rusty shovels and broken tongs, spits and pots, joint-stools, and the fractured remains of rush-bottomed chairs. *There*, a closet has disgorged its bowels, cracked tumblers, broken wine glasses, phials of forgotten physic, papers of unknown powders, seeds, and dried herbs, handfuls of old corks, tops of tea-pots, and stoppers of departed decanters;—from the rag-hole in the garret to the rat-hole in the cellar, no place escapes unrummaged. It would seem as if the day of general doom was come, and the utensils of the house were dragged forth to judgment. In this tempest, the words of Lear naturally present themselves, and might, with some alteration, be made strictly applicable:

“ Let the great gods,  
That keep this dreadful pudder o'er our heads,  
Find out their enemies now. Tremble, thou wretch  
That hast within thee undivulged crimes  
Unwhipt of justice ! ”

“ Close pent-up guilt,  
Raise your concealing continents, and ask  
These dreadful summoners grace ! ”

This ceremony completed, and the house thoroughly evacuated, the next operation is to smear the walls and

ceilings of every room and closet with brushes dipped in a solution of lime, called *white-wash*; to pour buckets of water over every floor, and scratch all the partitions and wainscots with rough brushes wet with soap-suds, and dipped in stone-cutter's sand. The windows by no means escape the general deluge. A servant scrambles out upon the pent-house, at the risk of her neck, and with a mug in her hand, and a bucket within reach, she dashes away innumerable gallons of water against the glass panes; to the great annoyance of the passengers in the street.

I have been told that an action at law was once brought against one of these water nymphs, by a person who had a new suit of clothes spoiled by this operation; but, after long argument, it was determined by the whole court, that the action would not lie, in as much as the defendant was in the exercise of a legal right, and not answerable for the consequences; and so the poor gentleman was doubly nonsuited; for he lost not only his suit of clothes, but his suit at law.

These smearings and scratching, washings and dashings, being duly performed, the next ceremonial is to cleanse and replace the dismasted furniture. You may have seen a house raising, or a ship-launch, when all the hands within reach are collected together: recollect, if you can, the hurry, bustle, confusion, and noise of such a scene, and you will have some idea of this cleaning match. The misfortune is, that the sole object is to make things clean; it matters not how many useful, ornamental, or valuable articles are mutilated, or suffer death under the operation; a mahogany chair and carved frame undergo the same discipline; they are to be made *clean* at all events; but their preservation is not worthy of attention. For instance, a fine large engraving is laid flat on the floor; smaller prints are piled upon it, and the superincumbent weight cracks the glasses of the lower tier: but this is of no consequence

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A valuable picture is placed leaning against the sharp corner of a table; others are made to lean against that, until the pressure of the whole forces the corner of the table through the canvass of the first. The frame and glass of a fine print are to be cleaned; the spirit and oil used on this occasion are suffered to leak through and spoil the engraving; no matter, if the glass is clean, and the frame shine, it is sufficient; the rest is not worthy of consideration. An able arithmetician has made an accurate calculation, founded on long experience, and has discovered, that the losses and destruction incident to two white-washings are equal to one removal, and three removals equal to one fire.

The cleaning frolic over, matters begin to resume their pristine appearance. The storm abates, and all would be well again, but it is impossible that so great a convulsion, in so small a community, should not produce some farther effects. For two or three weeks after the operation, the family are usually afflicted with sore throats or sore eyes, occasioned by the caustic quality of the lime, or with severe colds from the exhalations of wet floors or damp walls.

I know a gentleman, who was fond of accounting for every thing in a philosophical way. He considers this, which I have called a custom, as a real periodical disease, peculiar to the climate. His train of reasoning is ingenious and whimsical; but I am not at leisure to give you a detail. The result was, that he found the distemper to be incurable; but after much study he conceived he had discovered a method to divert the evil he could not subdue. For this purpose he caused a small building, about twelve feet square, to be erected in his garden, and furnished with some ordinary chairs and tables; and a few prints of the cheapest sort were hung against the walls. His hope was, that when the white-washing frenzy seized the females of

his family, they might repair to this apartment, and scrub, and smear, and scour, to their heart's content ; and so spend the violence of the disease in this out-post, while he enjoyed himself in quiet at head-quarters. But the experiment did not answer his expectation ; it was impossible it should, since a principal part of the gratification consists in the lady's having an uncontrolled right to torment her husband at least once a year, and to turn him out of doors, and take the reins of government into her own hands.

There is a much better contrivance than this of the philosopher ; which is, to cover the walls of the house with paper ; this is generally done, and though it cannot abolish, it at least shortens, the period of female dominion. The paper is decorated with flowers of various fancies, and made so ornamental that the women have admitted the fashion without perceiving the design.

There is also another alleviation of the husband's distress ; he generally has the privilege of a small room or closet for his books and papers, the key of which he is allowed to keep. This is considered as a privileged place, and stands like the land of Goshen amid the plagues of Egypt. But then he must be extremely cautious, and ever on his guard. For should he inadvertently go abroad and leave the key in his door, the housemaid, who is always on the watch for such an opportunity, immediately enters in triumph with buckets, brooms, and brushes ; takes possession of the premises, and forthwith puts all his books and papers to rights : to his utter confusion, and sometimes serious detriment. For instance :

A gentleman was sued by the executors of a tradesman, on a charge found against him in the deceased's books, to the amount of 30l. The defendant was strongly impressed with an idea that he had discharged the debt and taken a receipt ; but, as the transaction was of long standing, he knew not where to find the receipt. The suit went on in

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course, and the time approached when judgment would be obtained against him. He then sat seriously down to examine a large bundle of old papers, which he had untied and displayed on a table for that purpose. In the midst of his search, he was suddenly called away on business of importance ; he forgot to lock the door of his room. The house-maid, who had been long looking out for such an opportunity, immediately entered with the usual implements, and with great alacrity fell to cleaning the room, and putting things to rights. The first object that struck her eye was the confused situation of the papers on the table ; these were without delay bundled together like so many dirty knives and forks ; but in the action a small piece of paper fell unnoticed on the floor, which happened to be the very receipt in question : as it had no very respectable appearance, it was soon after swept out with the common dirt of the room, and carried in a rubbish pan into the yard. The tradesman had neglected to enter the credit in his book ; the defendant could find nothing to obviate the charge, and so judgment went against him for the debt and costs. A fortnight after the whole was settled, and the money paid, one of the children found the receipt among the rubbish in the yard.

There is also another custom peculiar to the city of Philadelphia, and nearly allied to the former. I mean that of washing the pavement before the doors every Saturday evening. I at first took this to be a regulation of the police : but on a further inquiry find it is a religious rite, preparatory to the Sabbath ; and is, I believe, the only religious rite in which the numerous sectaries of this city perfectly agree. The ceremony begins about sun-set, and continues till about ten or eleven at night. It is very difficult for a stranger to walk the streets on those evenings ; he runs a continual risk of having a bucket of dirty water thrown against his legs : but a Philadelphian born is

so much accustomed to the danger, that he avoids it with surprising dexterity. It is from this circumstance that a Philadelphian may be known any where by his gait. The streets of New York are paved with rough stones; these indeed are not washed, but the dirt is so thoroughly swept from before the doors, that the stones stand up sharp and prominent, to the great inconvenience of those who are not accustomed to so rough a path. But habit reconciles every thing. It is diverting enough to see a Philadelphian at New York; he walks the streets with as much painful caution, as if his toes were covered with corns, or his feet lamed with the gout: while a New Yorker, as little approving the plain masonry of Philadelphia, shuffles along the pavement like a parrot on a mahogany table.

It must be acknowledged, that the ablutions I have mentioned are attended with no small inconvenience; but the women would not be induced, from any consideration, to resign their privilege. Notwithstanding this, I can give you the strongest assurances that the women of America make the most faithful wives and the most attentive mothers in the world; and I am sure you will join me in opinion, that if a married man is made miserably only one week in a whole year, he will have no great cause to complain of the matrimonial bond.

I am, &c.

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*Answer to the above.*

SIR,

I have lately seen a letter upon the subject of white-washing, in which that necessary duty of a good housewife is treated with unmerited ridicule. I should probably have forgot the foolish thing by this time; but the season coming on which most women think suitable for cleansing

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their apartments from the smoke and dirt of the winter, I find this saucy author dished up in every family, and his flippant performance quoted wherever a wife attempts to exercise her reasonable prerogative, or execute the duties of her station. Women generally employ their time to better purpose than scribbling. The cares and comforts of a family rest principally upon their shoulders; hence it is that there are but few female authors; and the men, knowing how necessary our attentions are to their happiness, take every opportunity of discouraging literary accomplishments in the fair sex. You hear it echoed from every quarter—" My wife cannot make verses, it is true; but she makes an excellent pudding; she cannot correct the press, but she can correct her children, and scold her servants with admirable discretion: she cannot unravel the intricacies of political economy and federal government, but she can knit charming stockings." And this they call praising a wife, and doing justice to her character, with much nonsense of the like kind.

I say, women generally employ their time to much better purpose than scribbling; otherwise this facetious writer had not gone so long unanswered. We have ladies who sometimes lay down the needle, and take up the pen. I wonder none of them have attempted some reply. For my part, I do not pretend to be an author. I never appeared in print in my life, but I can no longer forbear saying something in answer to such impertinence, circulate how it may. Only, Sir, consider our situation. Men are naturally inattentive to the decencies of life; but why should I be so complaisant? I say, they are naturally filthy creatures. If it were not that their connection with the refined sex polished their manners, and had a happy influence on the general economy of life, these lords of the creation would wallow in filth, and populous cities would infect the atmosphere with their noxious vapours. It is

the attention and assiduity of the women that prevent men from degenerating into mere swine. How important then are the services we render ; and yet for these very services we are made the subject of ridicule and fun. Base ingratitude ! Nauseous creatures ! Perhaps you may think I am in a passion. No, Sir, I do assure you I never was more composed in my life ; and yet it is enough to provoke a saint to see how unreasonably we are treated by the men. Why now, there's my husband—a good enough sort of a man in the main—but I will give you a sample of him.

He comes into the parlour the other day, where, to be sure, I was cutting up a piece of linen—"Lord!" says he, "what a flutter here is ! I can't bear to see the parlour look like a taylor's shop : besides, I am going to make some important philosophical experiments, and must have sufficient room." You must know, my husband is one of your would-be philosophers. Well, I bundled up my linen as quick as I could, and began to darn a pair of ruffles, which took no room, and could give no offence. I thought, however, I would watch my lord and master's important business. In about half an hour, the tables were covered with all manner of trumpery ; bottles of water, phials of drugs, pasteboard, paper, and cards, glue, paste, and gum-arabic ; files, knives, scissars, and needles ; rosin, wax, silk, thread, rags, jags, tags, books, pamphlets, and papers. Lord bless me ! I am almost out of breath, and yet I have not enumerated half the articles ; well, to work he went, and although I did not understand the object of his manœuvres, yet I could sufficiently discover that he did not succeed in any one operation. I was glad of that, I confess, and with good reason too ; for, after he had fatigued himself with mischief, like a monkey in a china-shop, and had called the servants, to clear every thing away, I took a view of the scene my parlour exhibited. I shall not even attempt a minute description ; suffice it to say, that he had overset

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his inkstand, and stained my best mahogany table with ink: he had spilt a quantity of vitriol, and burnt a large hole in my carpet: my marble hearth was all over spotted with melted rosin; besides this, he had broken three china cups, four wine glasses, two tumblers, and one of my handsomest decanters. And, after all, as I said before, I perceived that he had not succeeded in any one operation. By the bye, tell your friend, the white-wash scribbler, that this is one means by which our closets become furnished with "halves of china bowls, cracked tumblers, broken wine-glasses, tops of tea pots, and stoppers of departed decanters." I say, I took a view of the dirt and devastation my philosophic husband had occasioned; and there I sat, like Patience on a monument, smiling at grief: but it worked inwardly. I would almost as soon the melted rosin and vitriol had been in his throat, as on my dear marble hearth, and my beautiful carpet. It is not true that women have no power over their own feelings; for, notwithstanding this provocation, I said nothing, or next to nothing: for I only observed, very pleasantly, what a lady of my acquaintance had told me, that the reason why philosophers are called *literary* men, is because they make a great *litter*: not a word more; however, the servant cleared away, and down sat the philosopher. A friend dropt in soon after—"Your servant, Sir, how do you do?" "O Lord! I am almost fatigued to death; I have been all the morning making philosophical experiments." I was now more hardly put to it to smother a laugh, than I had been just before to contain my rage: my *precious* went out soon after, and I, as you may suppose, mustered all my forces; brushes, buckets, soap, sand, limeskins, and cocoa-nut shells, with all the powers of housewifery, were immediately employed. I was certainly the best philosopher of the two; for my experiments succeeded, and his did not. All was well again, except my poor carpet—my vitriolized

carpet, which still continued a mournful memento of philosophic fury, or rather philosophic folly. The operation was scarce over, when in came my experimental philosopher, and told me, with all the indifference in the world, that he had invited six gentlemen to dine with him at three o'clock. It was then past one. I complained of the short notice. "Poh! poh!" said he, "you can get a leg of mutton, and a loin of veal, and a few potatoes, which will do well enough." Heaven! what a chaos must the head of a philosopher be! a leg of mutton, a loin of veal, and potatoes! I was at a loss whether I should laugh or be angry; but there was no time for determining: I had but an hour and a half to do a world of business in. My carpet, which had suffered in the cause of experimental philosophy in the morning, was destined to be most shamefully dishonoured in the afternoon by a deluge of nasty tobacco juice. Gentlemen smokers love segars better than carpets. Think, Sir, what a woman must endure under such circumstances: and then, after all, to be reproached with cleanliness, and to have her white-washings, her scourings, and scrubbings, made the subject of ridicule: it is more than patience can put up with. What I have now exhibited is but a small specimen of the injuries we sustain from the boasted superiority of men. But we will not be laughed out of our cleanliness. A woman would rather be called any thing than a *slut*, as a man would rather be thought a knave than a fool. I had a great deal more to say, but am called away: we are just preparing to white-wash, and of course I have a deal of business on my hands. The white-wash buckets are paraded, brushes are ready, my husband is gone off—so much the better; when we are upon a thorough cleaning, the first dirty thing to be removed is one's husband. I am called for again. Adieu.

*Advice to those who are about to undertake a Sea Voyage.*

When you intend to take a long voyage, nothing is better than to keep it a secret till the moment of your departure. Without this, you will be continually interrupted and tormented by visits from friends and acquaintances, who not only make you lose your valuable time, but make you forget a thousand things which you wish to remember; so that when you are embarked, and fairly at sea, you recollect, with much uneasiness, affairs which you have not terminated, accounts that you have not settled, and a number of things which you proposed to carry with you, and which you find the want of every moment. Would it not be attended with the best consequences to reform such a custom, and to suffer a traveller, without deranging him, to make his preparations in quietness, to set apart a few days, when these are finished, to take leave of his friends, and to receive their good wishes for his happy return?

It is not always in one's power to choose a captain; though great part of the pleasure and happiness of the passage depends upon this choice, and though one must for a time be confined to his company, and be in some measure under his command. If he is a social, sensible man, obliging, and of a good disposition, you will be so much the happier. One sometimes meets with people of this description, but they are not common; however, if you're be not of this number, if he be a good seaman, attentive, careful, and active in the management of his vessel, you must dispense with the rest, for these are the most essential qualities.

Whatever right you may have, by your agreement with him, to the provisions he has taken on board for the use of the passengers, it is always proper to have some private store, which you may make use of occasionally. You

ought, therefore, to provide good water, that of the ship being often bad ; but you must put it into bottles, without which you cannot expect to preserve it sweet. You ought also to carry with you good tea, ground coffee, chocolate, wine of that sort which you like best, cyder, dried raisins, almonds, sugar, capillaire, citrons, rum, eggs dipped in oil, portable soup, bread twice baked. With regard to poultry, it is almost useless to carry any with you, unless you resolve to undertake the office of feeding and fattening them yourself. With the little care which is taken of them on board a ship, they are almost all sickly, and their flesh is as tough as leather.

All sailors entertain an opinion, which has undoubtedly originated formerly from a want of water, and when it has been found necessary to be sparing of it, that poultry never know when they have drank enough, and that, when water is given them at discretion, they generally kill themselves by drinking beyond measure. In consequence of this opinion, they give them water only once in two days, and even then in small quantities : but as they pour this water into troughs inclining on one side, which occasions it to run to the lower part, it thence happens that they are obliged to mount one upon the back of another in order to reach it ; and there are some which cannot even dip their beaks in it. Thus continually tantalized and tormented by thirst, they are unable to digest their food, which is very dry, and they soon fall sick and die. Some of them are found thus every morning, and are thrown into the sea ; while those which are killed for the table are scarcely fit to be eaten. To remedy this inconvenience, it will be necessary to divide their troughs into small compartments, in such a manner, that each of them may be capable of containing water ; but this is seldom or never done. On his account, sheep and hogs are to be considered as the best fresh provisions that one can have at sea :

meat there being in general very good, and pork excellent.

It may happen that some of the provisions and stores, which I have recommended, may become almost useless, by the care which the captain has taken to lay in a proper stock : but in such a case you may dispose of it to relieve the poor passengers, who, paying less for their passage, are stowed among the common sailors, and have no right to the captain's provisions, except such part of them as is used for feeding the crew. These passengers are sometimes sick, melancholy, and dejected ; and there are often women and children among them, neither of whom have any opportunity of procuring those things which I have mentioned, and of which, perhaps, they have the greatest need. By distributing amongst them a part of your superfluity, you may be of the greatest assistance to them. You may restore their health, save their lives, and in short render them happy ; which always affords the liveliest sensation to a feeling mind.

The most disagreeable thing at sea is the cookery ; for there is not, properly speaking, any professed cook on board. The worst sailor is generally chosen for that purpose, who for the most part is equally dirty. Hence comes the proverb used among the English sailors, that *God sends meat, and the devil sends cooks*. Those, however, who have a better opinion of Providence, will think otherwise. Knowing that sea air, and the exercise or motion which they receive from the rolling of the ship, have a wonderful effect in whetting the appetite, they will say, that Providence has given sailors bad cooks to prevent them from eating too much ; or that, knowing they would have bad cooks, he has given them a good appetite to prevent them from dying with hunger. However, if you have no confidence in these subtilties of Providence, you may yourself, with a lamp and a boiler, by the help of a little

spirits of wine, prepare some food, such as soup, hash, &c. A small oven made of tin-plate is not a bad piece of furniture; your servant may roast in it a piece of mutton or pork. If you are ever tempted to eat salt beef, which is often very good, you will find that cyder is the best liquor to quench the thirst generally caused by salt meat or salt fish. Sea biscuit, which is too hard for the teeth of some people, may be softened by steeping it; but bread double baked is the best; for being made of good loaf-bread, cut into slices, and baked a second time, it readily imbibes water, becomes soft, and is easily digested: it consequently forms excellent nourishment, much superior to that of biscuit, which has not been fermented.

I must here observe, that this double-baked bread was originally the real biscuit prepared to keep at sea; for the word *biscuit*, in French, signifies twice baked.\* Please often boil badly, and do not become soft; in such a case, by putting a two-pound shot into the kettle, the bottom of the vessel, by means of this bullet, will convert the porridge into a kind of porridge, like mustard.

Having often seen soup, when put upon the table at sea in broad flat dishes, thrown out on every side by the rolling of the vessel, I have wished that our tin men would make our soup basons with divisions or compartments; forming small plates, proper for containing soup for one person only. By this disposition, the soup, in an extraordinary roll, would not be thrown out of the plate, and would not fall into the breasts of those who are at table, and scald them. Having entertained you with these things of little importance, permit me now to conclude with some general reflections upon navigation.

When navigation is employed only for transporting me

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\* It is derived from *bis* again, and *cuit* baked.

cessary provisions from one country, where they abound, to another where they are wanting; when by this it prevents famines, which were so frequent and so fatal before it was invented and became so common; we cannot help considering it as one of those arts which contribute most to the happiness of mankind. But when it is employed to transport things of no utility, or articles of luxury, it is then uncertain whether the advantages resulting from it, are sufficient to counterbalance the misfortunes it occasions by exposing the lives of so many individuals upon the vast ocean. And when it is used to plunder vessels and transport slaves, it is evidently only the dreadful means of increasing those calamities which afflict human nature.

One is astonished to think on the number of vessels and men who are daily exposed in going to bring tea from China, coffee from Arabia, and sugar and tobacco from America; all commodities which our ancestors lived very well without. The sugar trade employs nearly a thousand vessels; and that of tobacco almost the same number. With regard to the utility of tobacco, little can be said, and, with regard to sugar, how much more meritorious would it be to sacrifice the momentary pleasure which we receive from drinking it once or twice a day in our tea, than to encourage the numberless cruelties that are continually exercised in order to procure it for us?

A celebrated French moralist said, that, when he considered the wars which we foment in Africa to get negroes; the great number who of course perish in these wars; the multitude of those wretches who die in their passage, by disease, bad air, and bad provisions; and lastly, how many perish by the cruel treatment they meet with in a state of slavery; when he saw a bit of sugar, he could not help imagining it to be covered with spots of human blood. But, had he added to these considerations the wars which we carry on against one another, to take and retake the islands

that produce this commodity, he would not have seen the sugar simply spotted with blood, he would have beheld it entirely tinged with it.

These wars make the maritime powers of Europe, and the inhabitants of Paris and London, pay much dearer for their sugar than those of Vienna, though they are almost three hundred leagues distant from the sea. A pound of sugar, indeed, costs the former not only the price which they give for it, but also what they pay in taxes, necessary to support the fleets and armies which serve to defend and protect the countries that produce it.

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TO MR. OLIVER NEALE.

*On the Art of Swimming.*

DEAR SIR,

I cannot be of opinion with you that it is too late in life for you to learn to swim. The river near the bottom of your garden affords a most convenient place for the purpose. And as your new emloyment requires your being often on the water, of which you have such a dread, I think you would do well to make the trial; nothing being so likely to remove those apprehensions as the consciousness of an ability to swim to the shore, in case of an accident, or of supporting yourself in the water till a boat could come to take you up.

I do not know how far corks or bladders may be useful in learning to swim, having never seen much trial of them. Possibly they may be of service in supporting the body while you are learning what is called the stroke, or that manner of drawing in and striking out the hands and feet that is necessary to produce progressive motion. But you will be no swimmer till you can place some confidence,

in the power of the water to support you ; I would therefore advise the acquiring that confidence in the first place ; especially as I have known several who, by a little of the practice necessary for that purpose, have insensibly acquired the stroke, taught as it were by nature.

The practice I mean is this. Choosing a place where the water deepens gradually, walk coolly into it till it is up to your breast, then turn round, your face to the shore, and throw an egg into the water between you and the shore. It will sink to the bottom, and be easily seen there, as your water is clear. It must lie in water so deep as that you cannot reach it to take it up but by diving for it. To encourage yourself in order to do this, reflect that your progress will be from deeper to shallower water, and that at any time you may, by bringing your legs under you and standing on the bottom, raise your head far above the water. Then plunge under it with your eyes open, throwing yourself towards the egg, and endeavouring by the action of your hands and feet against the water to get forward till within reach of it. In this attempt you will find, that the water buoys you up against your inclination ; that it is not so easy a thing to sink as you imagined ; that you cannot but by active force get down to the egg. Thus you feel the power of the water to support you, and learn to confide in that power ; while your endeavours to overcome it, and to reach the egg, teach you the manner of acting on the water with your feet and hands, which action is afterwards used in swimming to support your head higher above water, or to go forward through it.

I would the more earnestly press you to the trial of this method, because, though I think I satisfied you that your body is lighter than water, and that you might float in it a long time with your mouth free for breathing, if you would put yourself in a proper posture, and would be still and forbear struggling ; yet, till you have obtained this expe-

residual confidence in the water, I cannot depend on your having the necessary presence of mind to recollect that posture and the directions I gave you relating to it. The surprise may put all out of your mind. For though we value ourselves on being reasonable knowing creatures, reason and knowledge seem on such occasions to be of little use to us; and the brutes, to whom we allow scarce a glimmering of either, appear to have the advantage of us.

I will, however, take this opportunity of repeating those particulars to you, which I mentioned in our last conversation, and by perusing them at your leisure, you may possibly imprint them so in your memory as on occasion to be of some use to you.

1. That though the legs, arms, and head of a human body, being solid parts, are specifically something heavier than fresh water, yet the trunk, particularly the upper part, from its hollowness, is so much higher than water, as that the whole of the body taken together is too light to sink wholly under water, but some part will remain above, until the lungs become filled with water, which happens from drawing water into them instead of air, when a person in the fright attempts breathing while the mouth and nostrils are under water.

2. That the legs and arms are specifically lighter than salt water, and will be supported by it; so that a human body would not sink in salt water, though the lungs were filled as above, but from the greater specific gravity of the head.

3. That therefore a person throwing himself on his back in salt water, and extending his arms, may easily lie so as to keep his mouth and nostrils free for breathing; and by a small motion of his hands may prevent turning, if he should perceive any tendency to it.

4. That in fresh water, if a man throws himself on his back, near the surface, he cannot long continue in that si-

tuation but by the proper action of his hands on the water. If he uses no such action, the legs and lower part of the body will gradually sink till he comes into an upright position, in which he will continue suspended, the hollow of the breast keeping the head uppermost.

5. But if, in this erect position, the head is kept upright above the shoulders, as when we stand on the ground, the immersion will, by the weight of that part of the head that is out of the water, reach above the mouth and nostrils, perhaps a little above the eyes, so that a man cannot long remain suspended in water with his head in that position.

6. The body continuing suspended as before, and upright, if the head be leaned quite back, so that the face looks upwards, all the back part of the head being then under water, and its weight consequently in a great measure supported by it, the face will remain above water quite free for breathing, will rise an inch higher every inspiration, and sink as much every expiration, but never so low as that the water may come over the mouth.

7. If therefore a person unacquainted with swimming, and falling accidentally into the water, could have presence of mind sufficient to avoid struggling and plunging, and to let the body take this natural position, he might continue long safe from drowning till perhaps help would come. For as to the clothes, their additional weight while immersed is very inconsiderable, the water supporting it, though when he comes out of the water, he would find them very heavy indeed.

But, as I said before, I would not advise you or any one to depend on having this presence of mind on such an occasion, but learn fairly to swim; as I wish all men were taught to do in their youth: they would, on many occurrences, be the safer for having that skill, and on many more the happier, as free from painful apprehensions of danger, to say nothing of the enjoyment in so delightful and whole-

some an exercise. Soldiers particularly should, methinks, all be taught to swim; it might be of frequent use either in surprising an enemy, or saving themselves. And if I had now boys to educate, I should prefer those schools (other things being equal) where an opportunity was afforded for acquiring so advantageous an art, which once learned is never forgotten.

I am, Sir, &c.

B. FRANKLIN.

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*On the same Subject, in Answer to some Inquiries of  
M. Dubourg.*

\* \* \* I am apprehensive that I shall not be able to find leisure for making all the disquisitions and experiments which would be desirable on this subject. I must, therefore, content myself with a few remarks.

The specific gravity of some human bodies, in comparison to that of water, has been examined by Mr. Robinson, in our Philosophical Transactions, volume 50, page 30, for the year 1757. He asserts, that fat persons with small bones float most easily upon the water.

The diving-bell is accurately described in our Transactions.

When I was a boy, I made two oval pallets, each about ten inches long, and six broad, with a hole for the thumb, in order to retain it fast in the palm of my hand. They much resembled a painter's pallets. In swimming I pushed the edges of these forward, and I struck the water with their flat surfaces as I drew them back. I remember I swam faster by means of these pallets, but they fatigued my wrists. I also fitted to the soles of my feet a kind of sandals; but I was not satisfied with them, because I ob-

served that the stroke is partly given by the inside of the feet and the ankles, and not entirely with the soles of the feet.

We have here waistcoats for swimming, which are made of double sail-cloth, with small pieces of cork quilted in between them.

I know nothing of the *scaphandre* of M. de la Chapelle.

I know by experience, that it is a great comfort to a swimmer, who has a considerable distance to go, to turn himself sometimes on his back, and to vary in other respects the means of procuring a progressive motion.

When he is seized with the cramp in the leg, the method of driving it away is to give to the parts affected a sudden, vigorous, and violent shock; which he may do in the air as he swims on his back.

During the great heats of summer there is no danger in bathing, however warm we may be, in rivers which have been thoroughly warmed by the sun. But to throw one's self into cold spring water, when the body has been heated by exercise in the sun, is an imprudence which may prove fatal. I once knew an instance of four young men, who, having worked at harvest in the heat of the day, with a view of refreshing themselves plunged into a spring of cold water: two died upon the spot, a third the next morning, and the fourth recovered with great difficulty. A copious draught of cold water, in similar circumstances, is frequently attended with the same effect in North America.

The exercise of swimming is one of the most healthy and agreeable in the world. After having swam for an hour or two in the evening, one sleeps coolly the whole night, even during the most ardent heat of summer. Perhaps, the pores being cleansed, the insensible perspiration increases and occasions this coolness. It is certain that much swimming is the means of stopping a diarrhoea, and even of producing a constipation. With respect to those

who do not know how to swim, or who are affected with a diarrhoea at a season which does not permit them to use that exercise, a warm bath, by cleansing and purifying the skin, is found very salutary, and often effects a radical cure. I speak from my own experience, frequently repeated, and that of others to whom I have recommended this.

You will not be displeased if I conclude these hasty remarks by informing you, that as the ordinary method of swimming is reduced to the act of rowing with the arms and legs, and is consequently a laborious and fatiguing operation when the space of water to be crossed is considerable; there is a method in which a swimmer may pass to great distances with much facility, by means of a sail. This discovery I fortunately made by accident, and in the following manner.

When I was a boy, I amused myself one day with flying a paper kite; and, approaching the bank of a pond, which was near a mile broad, I tied the string to a stake, and the kite ascended to a very considerable height above the pond, while I was swimming. In a little time, being desirous of amusing myself with my kite, and enjoying at the same time the pleasure of swimming, I returned; and, loosing from the stake the string with the little stick which was fastened to it, went again into the water, where I found, that, lying on my back and holding the stick in my hands, I was drawn along the surface of the water in a very agreeable manner. Having then engaged another boy to carry my clothes round the pond, to a place which I pointed out to him on the other side, I began to cross the pond with my kite, which carried me quite over without the least fatigue, and with the greatest pleasure imaginable. I was only obliged occasionally to halt a little in my course, and resist its progress, when it appeared that, by following too quick, I lowered the kite too much: by doing which occasionally I made it rise again. I have never since that

time practised this singular mode of swimming, though I think it not impossible to cross in this manner from Dover to Calais. The packet-boat, however, is still preferable. \* \* \*

B. FRANKLIN.

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TO M. DUBOURG.

*On the free Use of Air.*

*London, July 28, 1760.*

\* \* \* I greatly approve the epithet which you give, in your letter of the 8th of June, to the new method of treating the small-pox, which you call the *tonic* or bracing method; I will take occasion from it to mention a practice to which I have accustomed myself. You know the cold bath has long been in vogue here as a tonic; but the shock of the cold water has always appeared to me, generally speaking, as too violent, and I have found it much more agreeable to my constitution to bathe in another element, I mean cold air. With this view I rise almost every morning, and sit in my chamber without any clothes whatever, half an hour or an hour, according to the season, either reading or writing. This practice is not in the least painful, but, on the contrary, agreeable; and if I return to bed afterwards, before I dress myself, as sometimes happens, I make a supplement to my night's rest of one or two hours of the most pleasing sleep that can be imagined. I find no ill consequences whatever resulting from it, and that at least it does not injure my health, if it does not in fact contribute much to its preservation. I shall therefore call it for the future a *bracing* or *tonic* bath. \* \* \*

B FRANKLIN.

TO THE REV. FATHER BECCARIA.

*Describing a new Musical Instrument composed of  
Glasses.*

REV. SIR,

London, July 13, 1762,

I once promised myself the pleasure of seeing you at Turin, but as that is not now likely to happen, being just about returning to my native country, America, I sit down to take leave of you (among others of my European friends that I cannot see) by writing.

I thank you for the honourable mention you have so frequently made of me in your letter to Mr. Collinson and others; for the generous defence you undertook, and executed with so much success, of my electrical opinions; and for the valuable present you have made me of your new work, from which I have received great information and pleasure. I wish I could in return entertain you with any thing new of mine on that subject; but I have not lately pursued it. Nor do I know of any one here that is at present much engaged in it.

Perhaps, however, it may be agreeable to you, as you live in a musical country, to have an account of the new instrument lately added here to the great number that charming science was before possessed of. As it is an instrument that seems peculiarly adapted to Italian music, especially that of the soft and plaintive kind, I will endeavour to give you such a description of it, and of the manner of constructing it, that you or any of your friends may be enabled to imitate it, if you incline so to do, without being at the expense and trouble of the many experiments I have made in endeavouring to bring it to its present perfection.

You have doubtless heard the sweet tone that is drawn from a drinking glass, by passing a wet finger round its

brim. One Mr. Puckeridge, a gentleman from Ireland, was the first who thought of playing tunes, formed of these tones. He collected a number of glasses of different sizes, fixed them near each other on a table, and tuned them by putting into them water, more or less, as each note required. The tones were brought out by passing his fingers round their brims.—He was unfortunately burned here, with his instrument, in a fire which consumed the house he lived in. Mr. E. Delaval, a most ingenious member of our Royal Society, made one in imitation of it, with a better choice and form of glasses, which was the first I saw or heard. Being charmed with the sweetness of its tones, and the music he produced from it, I wished only to see the glasses disposed in a more convenient form, and brought together in a narrower compass, so as to admit of a greater number of tones, and all within reach of hand to a person sitting before the instrument, which I accomplished, after various intermediate trials, and less commodious forms, both of glasses and construction, in the following manner.

The glasses are blown as near as possible in the form of hemispheres, having each an open neck or socket in the middle. The thickness of the glass near the brim about a tenth of an inch, or hardly quite so much, but thicker as it comes nearer the neck, which in the largest glasses is about an inch deep, and an inch and half wide within, these dimensions lessening as the glasses themselves diminish in size, except that the neck of the smallest ought not to be shorter than half an inch. The largest glass is nine inches diameter, and the smallest three inches. Between these three are twenty-three different sizes, differing from each other a quarter of an inch in diameter. To make a single instrument there should be at least six glasses blown of each size: and out of this number one may probably pick thirty-seven glasses (which are sufficient for three octaves

with all the semitones) that will be each either the note one wants, or a little sharper than that note, and all fitting so well into each other as to taper pretty regularly from the largest to the smallest. It is true there are not thirty-seven sizes, but it often happens that two of the same size differ a note or half note in tone, by reason of a difference in thickness, and these may be placed one in the other without sensibly hurting the regularity of the taper form.

The glasses being chosen, and every one marked with a diamond the note you intend it for, they are to be turned by diminishing the thickness of those that are too sharp. This is done by grinding them round from the neck towards the brim, the breadth of one or two inches, as may be required; often trying the glass by a well-tuned harpsichord, comparing the tone drawn from the glass by your finger, with the note you want, as sounded by that string of the harpsichord. When you come nearer the matter, be careful to wipe the glass clean and dry before each trial, because the tone is something flatter when the glass is wet, than it will be when dry:—and, grinding a very little between each trial, you will thereby tune to great exactness. The more care is necessary in this, because if you go below your required tone, there is no sharpening it again but by grinding somewhat off the brim, which will afterwards require polishing, and thus increase the trouble.

The plates being thus tuned, you are to be provided with a case for them, and a spindle on which they are to be fixed. My base is about three feet long, eleven inches every way wide within at the biggest end, and five inches at the smallest end; for it tapers all the way, to adapt it better to the conical figure of the set of glasses. This case opens in the middle of its height, and the upper part turns up by hinges fixed behind. The spindle, which is of hard iron, lies horizontally from end to end of the box within, exactly in the middle, and is made to turn on brass

gudgeons at each end. It is round, an inch diameter at the thickest end, and tapering to a quarter of an inch at the smallest. A square shank comes from its thickest end through the box, on which shank a wheel is fixed by a screw. This wheel serves as a fly to make the motion equable, when the spindle, with the glasses, is turned by the foot like a spinning-wheel. My wheel is of mahogany, eighteen inches diameter, and pretty thick, so as to conceal near its circumference about 25lb. of lead. An ivory pin is fixed in the face of this wheel, and about four inches from the axis. Over the neck of this pin is put the loop of the string that comes up from the moveable step to give it motion. The case stands on a neat frame with four legs.

To fix the glasses on the spindle, a cork is first to be fitted in each neck pretty tight, and projecting a little without the neck, that the neck of one may not touch the inside of another when put together, for that would make a jarring. These corks are to be perforated with holes of different diameters, so as to suit that part of the spindle on which they are to be fixed. When a glass is put on, by holding it stiffly between both hands, while another turns the spindle, it may be gradually brought to its place. But care must be taken that the hole be not too small, lest in forcing it up the neck should split: nor too large, lest the glass not being firmly fixed should turn or move on the spindle, so as to touch and jar against its neighbouring glass. The glasses thus are placed one in another, the largest on the biggest end of the spindle which is to the left hand; the neck of this glass is towards the wheel, and the next goes into it in the same position, only about an inch of its brim appearing beyond the brim of the first; thus proceeding, every glass when fixed shews about an inch of its brim (or three quarters of an inch, or half an inch, as they grow smaller) beyond the brim of the glass that contains it; and it is from these exposed parts of each

glass that the tone is drawn, by laying a finger upon one of them as the spindle and glasses turn round.

My largest glass is G, a little below the reach of a common voice, and my highest G, including three complete octaves. To distinguish the glasses the more readily to the eye, I have painted the apparent parts of the glasses within side, every semitone white, and the other notes of the octave with the seven prismatic colours, *viz.* C red, D orange, E yellow, F green, G blue, A indigo, B purple and C red again; so that glasses of the same colour (the white excepted) are always octaves to each other.

This instrument is played upon, by sitting before the middle of the set of glasses as before the keys of a harpsichord, turning them with the foot, and whetting them now and then with a sponge and clean water. The fingers should be first a little soaked in water, and quite free from all greasiness; a little fine chalk upon them is sometimes useful, to make them catch the glass and bring out the tone more readily. Both hands are used, by which means different parts are played together. Observe, that the tones are best drawn out when the glasses turn *from* the ends of the fingers, not when they turn *to* them.

The advantages of this instrument are, that its tones are incomparably sweet beyond those of any other; that they may be swelled and softened at pleasure by stronger or weaker pressures of the finger, and continued to any length; and that the instrument, being once well tuned, never again wants tuning.

In honour of your musical language, I have borrowed from it the name of this instrument, calling it the *Armonica*.

With great esteem and respect, I am, &c.

B. FRANKLIN.

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274 MEDIUMS OF CONVEYING SOUND.

TO MR. OLIVER NEALE.

*On the best Mediums for conveying Sound.*

DEAR SIR,

July 20, 1762.

I have perused your paper on sound, and would freely mention to you, as you desire it, every thing that appeared to me to need correction: but nothing of that kind occurs to me, unless it be, where you speak of the air as "the best medium for conveying sound." Perhaps this is speaking rather too positively, if there be, as I think there are, some other mediums that will convey it farther and more readily. It is a well-known experiment, that the scratching of a pin, at one end of a long piece of timber, may be heard by an ear applied near the other end, though it could not be heard at the same distance through the air. And two stones being struck smartly together under water, the stroke may be heard at a greater distance by an ear also placed under water, than it can be heard through the air: I think I have heard it near a mile: how much farther it may be heard I knew not; but suppose a great deal farther, because the sound did not seem faint, as if at a distance, like distant sounds through air, but smart and strong, and as if present just at the ear. I wish you would repeat these experiments now you are upon the subject, and add your own observations. And if you were to repeat, with your naturally exact attention and observation, the common experiment of the bell in the exhausted receiver, possibly something new may occur to you, in considering,

1. Whether the experiment is not ambiguous; i. e. whether the gradual exhausting of the air, as it creates an increasing difference of pressure on the outside, may not occasion in the glass a difficulty of vibrating, that renders it less fit to communicate to the air without, the vibrations

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that strike it from within ; and the diminution of the sound arise from this cause, rather than from the diminution of the air ?

2. Whether as the particles of air themselves are at a distance from each other, there must not be some medium between them, proper for conveying sound, since otherwise it would stop at the first particle ?

3. Whether the great difference we experience in hearing sounds at a distance, when the wind blows towards us from the sonorous body, or towards that from us, can be well accounted for by adding to or subtracting from the swiftness of sound, the degree of swiftness that is in the wind at the time ? The latter is so small in proportion, that it seems as if it could scarce produce any sensible effect, and yet the difference is very great. Does not this give some hint, as if there might be a subtle fluid, the conductor of sound, which moves at different times in different directions over the surface of the earth, and whose motion may perhaps be much swifter than that of the air in our strongest winds : and that, in passing through air, it may communicate that motion to the air which we call wind, though a motion in no degree so swift as its own ?

4. It is somewhere related, that a pistol, fired on the top of an exceeding high mountain, made a noise like thunder in the valleys below. Perhaps this fact is not exactly related : but if it is, would not one imagine from it, that the rarer the air, the greater sound might be produced in it from the same cause ?

5. Those balls of fire which are sometimes seen passing over a country, computed by philosophers to be often thirty miles high at least, sometimes burst at that height : the air must be exceeding rare there, and yet the explosion produces a sound that is heard at that distance, and for seventy miles round on the surface of the earth, so violent too as to shake buildings, and give an apprehension of an

earthquake. Does not this look as if a rare atmosphere, almost a vacuum, was no bad conductor of sound?

I have not made up my own mind on these points, and only mention them for your consideration; knowing that every subject is the better for your handling it.

With the greatest esteem, I am, &c.

B. FRANKLIN.

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TO LORD KAIMS, AT EDINBURGH.

*On the Harmony and Melody of the old Scotch Tunes.*

June 2, 1765.

\* \* \* In my passage to America I read your excellent work, the *Elements of Criticism*, in which I found great entertainment. I only wished you had examined more fully the subject of music, and demonstrated that the pleasure artists feel in hearing much of that composed in the modern taste, is not the natural pleasure arising from melody or harmony of sounds, but of the same kind with the pleasure we feel on seeing the surprising feats of tumblers and rope-dancers, who execute difficult things. For my part I take this to be really the case, and suppose it the reason why those who are unpractised in music, and therefore unacquainted with those difficulties, have little or no pleasure in hearing this music. Many pieces of it are mere composition of tricks. I have sometimes, at a concert, attended by a common audience, placed myself so as to see all their faces, and observed no signs of pleasure in them during the performance of a great part that was admired by the performers themselves; while a plain old Scotch tune, which they disdained, and could scarcely be prevailed on to play, gave manifest and general delight. Give me leave, on this occasion, to extend a little the

sense of your position, that "melody and harmony are separately agreeable, and in union delightful," and to give it as my opinion, that the reason why the Scotch tunes have lived so long, and will probably live for ever (if they escape being stifled in modern affected ornament) is merely this, that they are really compositions of melody and harmony united, or rather that their melody is harmony. I mean the simple tunes sung by a single voice. As this will appear paradoxical, I must explain my meaning. In common acceptation, indeed, only an agreeable *succession* of sounds is called *melody*, and only the *co-existence* of agreeable sounds, *harmony*. But since the memory is capable of retaining for some moments a perfect idea of the pitch of a past sound, so as to compare with it the pitch of a succeeding sound, and judge truly of their agreement or disagreement, there may and does arise from thence a sense of harmony between the present and past sounds, equally pleasing with that between two present sounds. Now the construction of the old Scotch tunes is this, that almost every succeeding emphatical note is a third, a fifth, an octave, or in short some note that is in concord with the preceding note. Thirds are chiefly used, which are very pleasing concords. I used the word *emphatical* to distinguish those notes which have a stress laid on them in singing the tune, from the lighter connecting notes, that serve merely, like grammar articles in common speech, to tack the whole together.

That we have a most perfect idea of a sound just past, I might appeal to all acquainted with music, who know how easy it is to repeat a sound in the same pitch with one just heard. In tuning an instrument, a good ear can easily determine that two strings are in unison by sounding them separately, as by sounding them together; their disagreement is also as easily, I believe I may say more easily and better distinguished, when sounded separately; for when

sounded together, though you know by the beating that one is higher than the other, you cannot tell which it is. I have ascribed to memory the ability of comparing the pitch of a present tone with that of one past. But if there should be, as possibly there may be, something in the ear, similar to what we find in the eye, that ability would not be entirely owing to memory. Possibly the vibrations given to the auditory nerves by a particular sound may actually continue some time after the cause of those vibrations is past, and the agreement or disagreement of a subsequent sound become by comparison with them more discernible. For the impression made on the visual nerves by a luminous object will continue for twenty or thirty seconds. Sitting in a room, look earnestly at the middle of a window a little while when the day is bright, and then shut your eyes; the figure of the window will still remain in the eye, and so distinct that you may count the panes. A remarkable circumstance attending this experiment, is, that the impression of forms is better retained than that of colours; for after the eyes are shut, when you first discern the image of the window, the panes appear dark, and the cross bars of the sashes, with the window frames and walls, appear white or bright; but if you still add to the darkness in the eyes by covering them with your hand, the reverse instantly takes place, the panes appear luminous and the cross bars dark. And by removing the hand they are again reversed. This I know not how to account for. Nor for the following: that after looking long through green spectacles, the white paper of a book will on first taking them off appear to have a blush of red; and after long looking through red glasses, a greenish cast; this seems to intimate a relation between green and red not yet explained. Further, when we consider by whom these ancient tunes were composed, and how they were first performed, we shall see that such harmonical successions of

sounds were natural and even necessary in their construction. They were composed by the minstrels of those days to be played on the harp, accompanied by the voice. The harp was strung with wire, which gives a sound of long continuance, and had no contrivance like that in the modern harpsichord, by which the sound of the preceding could be stopt, the moment a succeeding note began. To avoid actual discord, it was therefore necessary that the succeeding emphatic note should be a chord with the preceding, as their sounds must exist at the same time. Hence arose that beauty in those tunes that has so long pleased, and will please for ever, though men scarce know why. That they were originally composed for the harp, and of the most simple kind, I mean a harp without any half notes but those in the natural scale, and with no more than two octaves of strings, from C to C, I conjecture from another circumstance, which is, that not one of those tunes, really ancient, has a single artificial half note in it, and that in tunes where it was most convenient for the voice to use the middle notes of the harp, and place the key in F, there the B, which if used should be a B flat, is always omitted, by passing over it with a third. The connoisseurs in modern music will say, I have no taste; but I cannot help adding, that I believe our ancestors, in hearing a good song, distinctly articulated, sung to one of those tunes, and accompanied by the harp, felt more real pleasure than is communicated by the generality of modern operas, exclusive of that arising from the scenery and dancing. Most tunes of late composition, not having this natural harmony united with their melody, have recourse to the artificial harmony of a bass, and other accompanying parts. This support, in my opinion, the old tunes do not need, and are rather confused than aided by it. Whoever has heard James Oswald play them on his violoncello, will be less inclined to dispute this with me. I have more than once seen

tears of pleasure in the eyes of his auditors; and yet, I think, even *his* playing those tunes would please more, if he gave them less modern ornament,

I am, &c.

B. FRANKLIN.

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*Of Lightning, and the best Method of guarding against its mischievous Effects.*

Experiments made in electricity first gave philosophers a suspicion, that the matter of lightning was the same with the electric matter. Experiments afterwards made on lightning, obtained from the clouds by pointed rods, received into bottles, and subjected to every trial, have since proved this suspicion to be perfectly well founded; and that whatever properties we find in electricity, are also the properties of lightning.

This matter of lightning, or of electricity, is an extreme subtle fluid, penetrating other bodies, and subsisting in them, equally diffused.

When, by an operation of art or nature, there happens to be a greater proportion of this fluid in one body than in another, the body which has most will communicate to that which has least, till the proportion becomes equal; provided the distance between them be not too great; or, if it is too great, till there be proper conductors to convey it from one to the other.

If the communication be through the air without any conductor, a bright light is seen between the bodies, and a sound is heard. In our small experiments, we call this light and sound the electric spark and snap; but in the great operations of nature, the light is what we call lightning, and the sound (produced at the same time, though

generally arriving later at our ears than the light does to our eyes) is, with its echoes, called *thunder*.

If the communication of this fluid is by a conductor, it may be without either light or sound, the subtle fluid passing in the substance of the conductor.

If the conductor be good and of sufficient bigness, the fluid passes through it without hurting it. If otherwise, it is damaged or destroyed.

All metals, and water, are good conductors. Other bodies may become conductors by having some quantity of water in them, as wood, and other materials used in building, but not having much water in them, they are not good conductors, and therefore are often damaged in the operation.

Glass, wax, silk, wool, hair, feathers, and even wood perfectly dry, are non-conductors: that is, they resist instead of facilitating the passage of this subtle fluid.

When this fluid has an opportunity of passing through two conductors, one good, and sufficient, as of metal, the other not so good, it passes in the best, and will follow it in any direction.

The distance at which a body charged with this fluid will discharge itself suddenly, striking through the air into another body that is not charged, or not so highly charged, is different according to the quantity of the fluid, the dimensions and form of the bodies themselves, and the state of the air between them. This distance, whatever it happens to be between any two bodies, is called their *striking distance*, as, till they come within that distance of each other, no stroke will be made.

The clouds have often more of this fluid in proportion than the earth; in which case, as soon as they come near enough (that is, within the striking distance) or meet with a conductor, the fluid quits them and strikes into the earth. A cloud fully charged with this fluid, if so high as

to be beyond the striking distance from the earth, passes quietly without making noise or giving light; unless it meets with other clouds that have less.

Tall trees, and lofty buildings, as the towers and spires of churches, become sometimes conductors between the clouds and the earth; but not being good ones, that is, not conveying the fluid freely, they are often damaged.

Buildings that have their roofs covered with lead, or other metal, and spouts of metal continued from the roof into the ground to carry off the water, are never hurt by lightning, as, whenever it falls on such a building, it passes in the metals and not in the walls.

When other buildings happen to be within the striking distance from such clouds, the fluid passes in the walls whether of wood, brick, or stone, quitting the walls only when it can find better conductors near them, as metal rods, bolts, and hinges of windows or doors, gilding on wainscot, or frames of pictures, the silvering on the backs of looking-glasses, the wires for bells, and the bodies of animals, as containing watery fluids. And in passing through the house it follows the direction of these conductors, taking as many in its way as can assist it in its passage, whether in a straight or crooked line, leaping from one to the other, if not far distant from each other, only rending the wall in the spaces where these partial good conductors are too distant from each other.

An iron rod being placed on the outside of a building, from the highest part continued down into the moist earth, in any direction straight or crooked, following the form of the roof or other parts of the building, will receive the lightning at its upper end, attracting it so as to prevent its striking any other part; and, affording it a good conveyance into the earth, will prevent its damaging any part of the building.

A small quantity of metal is found able to conduct a

great quantity of this fluid. A wire no bigger than a goose quill has been known to conduct (with safety to the building as far as the wire was continued) a quantity of lightning that did prodigious damage both above and below it: and probably larger rods are not necessary, though it is common in America to make them of half an inch, some of three quarters, or an inch diameter.

The rod may be fastened to the wall, chimney, &c. with staples of iron. The lightning will not leave the rod (a good conductor) to pass into the wall (a bad conductor) through those staples. It would rather, if any were in the wall, pass out of it into the rod to get more readily by that conductor into the earth.

If the building be very large and extensive, two or more rods may be placed at different parts, for greater security.

Small ragged parts of clouds, suspended in the air between the great body of clouds and the earth (like leaf gold in electrical experiments) often serve as partial conductors for the lightning, which proceeds from one of them to another, and by their help comes within the striking distance to the earth or a building. It therefore strikes through those conductors a building that would otherwise be out of the striking distance.

Long sharp points communicating with the earth, and presented to such parts of clouds, drawing silently from them the fluid they are charged with, they are then attracted to the cloud, and may leave the distance so great as to be beyond the reach of striking.

It is therefore that we elevate the upper end of the rod six or eight feet above the highest part of the building, tapering it gradually to a fine sharp point, which is gilt to prevent its rusting.

Thus the pointed rod either prevents a stroke from the cloud, or if a stroke is made, conducts it to the earth with safety to the building.

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The lower end of the rod should enter the earth so deep as to come at the moist part, perhaps two or three feet; and if bent when under the surface so as to go in a horizontal line six or eight feet from the wall, and then bent again downwards three or four feet, it will prevent damage to any of the stones of the foundation.

A person apprehensive of danger from lightning, happening during the time of thunder to be in a house not so secured, will do well to avoid sitting near the chimney, near a looking glass, or any gilt pictures or wainscot; the safest place is in the middle of the room (so it be not under a metal lustre suspended by a chain) sitting in one chair and laying the feet up in another. It is still safer to bring two or three mattresses or beds into the middle of the room, and, folding them up double, place the chair upon them; for they not being so good conductors as the walls, the lightning will not choose an interrupted course through the air of the room and the bedding, when it can go through a continued better conductor, the wall. But where it can be had, a hammock or swinging bed, suspended by silk cords equally distant from the walls on every side, and from the ceiling and floor above and below, affords the safest situation a person can have in any room whatever; and what indeed may be deemed quite free from danger of any stroke by lightning.

Paris, Sept. 1767.

B. FRANKLIN.

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*Tendency of Rivers to the Sea.—Effect of the Sun's Rays on Cloths of different Colours.*

MY DEAR FRIEND,

Sept. 20, 1761.

It is, as you observed in our late conversation, a very general opinion, that *all rivers run into the sea*, or deposit

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their waters there. 'Tis a kind of audacity to call such general opinions in question, and may subject one to censure. But we must hazard something in what we think the cause of truth ; and if we propose our objections modestly, we shall, though mistaken, deserve a censure less severe, than when we are both mistaken and insolent.

That some rivers run into the sea is beyond a doubt. such, for instance, are the Amazons, and I think the Oronoko and the Mississippi. The proof is, that their waters are fresh quite to the sea, and out to some distance from the land. Our question is, whether the fresh waters of those rivers whose beds are filled with salt water to a considerable distance up from the sea (as the Thames, the Delaware, and the rivers that communicate with Chesapeak bay in Virginia) do ever arrive at the sea ? And as I suspect they do not, I am now to acquaint you with my reasons ; or, if they are not allowed to be reasons, my conceptions, at least, of this matter.

The common supply of rivers is from springs, which draw their origin from rain that has soaked into the earth. The union of a number of springs forms a river. The waters as they run, exposed to the sun, air, and wind, are continually evaporating. Hence in travelling one may often see where a river runs, by a long bluish mist over it, though we are at such a distance as not to see the river itself. The quantity of this evaporation is greater or less in proportion to the surface exposed by the same quantity of water to those causes of evaporation. While the river runs in a narrower confined channel in the upper hilly country, only a small surface is exposed ; a greater as the river widens. Now if a river ends in a lake, as some do, whereby its waters are spread so wide as that the evaporation is equal to the sum of all its springs, that lake will never overflow :—And if, instead of ending in a lake, it was drawn into greater length as a river, so as to expose a sur-

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face equal in the whole to that lake, the evaporation would be equal, and such river would end as a canal; when the ignorant might suppose, as they actually do in such cases, that the river loses itself by running under ground; whereas in truth it has run up into the air.

Now, many rivers that are open to the sea widen much before they arrive at it, not merely by the additional waters they receive, but by having their course stopped by the opposing flood-tide; by being turned back twice in twenty-four hours, and by finding broader beds in the low flat countries to dilate themselves in; hence the evaporation of the fresh water is proportionably increased; so that in some rivers it may equal the springs of supply. In such cases, the salt water comes up the river, and meets the fresh in that part where, if there were a wall or bank of earth across from side to side, the river would form a lake, fuller indeed at some times than at others, according to the seasons, but whose evaporation would, one time with another, be equal to its supply.

When the communication between the two kinds of water is open, this supposed wall of separation may be conceived as a moveable one, which is not only pushed some miles higher up the river by every flood tide from the sea, and carried down again as far by every tide of ebb, but which has even this space of vibration removed nearer to the sea in wet seasons, when the springs and brooks in the upper country are augmented by the falling rains, so as to swell the river, and farther from the sea in dry seasons.

Within a few miles above and below this moveable line of separation, the different waters mix a little, partly by their motion to and fro, and partly from the greater specific gravity of the salt water, which inclines it to run under the fresh, while the fresh water, being lighter, runs over the salt.

Cast your eye on the map of North America, and observe the bay of Chesapeak in Virginia, mentioned above; you will see, communicating with it by their mouths, the great rivers Sasquehanah, Potowmack, Rappahanock, York, and James, besides a number of smaller streams, each as big as the Thames. It has been proposed by philosophical writers, that to compute how much water any river discharges into the sea in a given time, we should measure its depth and swiftness at any part above the tide; as, for the Thames, at Kingston or Windsor. But can one imagine, that if all the water of those vast rivers went to the sea, it would not first have pushed the salt water out of that narrow-mouthed bay, and filled it with fresh?—The Sasquehanah alone would seem to be sufficient for this, if it were not for the loss by evaporation. And yet that bay is salt quite up to Annapolis.

As to our other subject, the different degrees of heat imbibed from the sun's rays by cloths of different colours, since I cannot find the notes of my experiment to send you, I must give it as well as I can from memory.

But first let me mention an experiment you may easily make yourself. Walk but a quarter of an hour in your garden when the sun shines, with a part of your dress white, and a part black; then apply your hand to them alternately, and you will find a very great difference in their warmth. The black will be quite hot to the touch, the white still cool.

Another. Try to fire the paper with a burning glass. If it is white, you will not easily burn it; but if you bring the focus to a black spot, or upon letters, written or printed, the paper will immediately be on fire under the letters.

Thus fullers and dyers find black cloths, of equal thickness with white ones, and hung out equally wet, dry in the sun much sooner than the white, being more readily heated

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by the sun's raya. It is the same before a fire; the heat of which sooner penetrates black stockings than white ones, and so is apt sooner to burn a man's shins. Also beer much sooner warms in a black mug set before the fire, than in a white one, or in a bright silver tankard.

My experiment was this. I took a number of little square pieces of broad cloth from a taylor's pattern-card, of various colours. There were black, deep blue, lighter blue, green, purple, red, yellow, white, and other colours, or shades of colours. I laid them all out upon the snow in a bright sun-shiny morning. In a few hours (I cannot now be exact as to the time) the black, being warmed most by the sun, was sunk so low as to be below the stroke of the sun's rays; the dark blue almost as low, the lighter blue not quite so much as the dark, the other colours less as they were lighter; and the quite white remained on the surface of the snow, not having entered it at all.

What signifies philosophy that does not apply to some use?—May we not learn from hence, that black clothes are not so fit to wear in a hot sunny climate or season, as white ones; because in such clothes the body is more heated by the sun when we walk abroad, and are at the same time heated by the exercise, which double heat is apt to bring on putrid dangerous fevers? That soldiers and seamen, who must march and labour in the sun, should in the East or West Indies have an uniform of white? That summer hats, for men or women, should be white, as repelling that heat which gives head-aches to many, and to some the fatal stroke that the French call the *coup de soleil*? That the ladies' summer hats, however, should be lined with black, as not reverberating on their faces those rays which are reflected upwards from the earth or water? That the putting a white cap of paper or linen *within* the crown of a black hat, as some do, will not keep out the heat, though it would if placed *without*. That fruit-walls

being blacked may receive so much heat from the sun in the day-time, as to continue warm in some degree through the night, and thereby preserve the fruit from frosts, or forward its growth?—with sundry other particular of less or greater importance, that will occur from time to time to attentive minds?—I am,

Your's affectionately,

B. FRANKLIN.

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TO PETER COLLINSON, ESQ. F. R. S. LONDON.

*Electrical Kite.*

SIR,

*Philadelphia, Oct. 19, 1752.*

As frequent mention is made in public papers from Europe of the success of the Philadelphia experiment for drawing the electric fire from clouds by means of pointed rods of iron erected on high buildings, &c. it may be agreeable to the curious to be informed that the same experiment has succeeded in Philadelphia, though made in a different and more easy manner, which is as follows:

Make a small cross of two light strips of cedar, the arms so long as to reach to the four corners of a large thin silk handkerchief when extended; tie the corners of the handkerchief to the extremities of the cross, so you have the body of a kite; which being properly accommodated with a tail, loop, and string, will rise in the air, like those made of paper; but this being of silk is fitter to bear the wet and wind of a thunder gust without tearing. To the top of the upright stick of the cross is to be fixed a very sharp pointed wire, rising a foot or more above the wood. To the end of the twine, next the hand, is to be tied a silk ribbon, and where the silk and twine join, a key may be

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fastened. This kite is to be raised when a thunder-gust appears to be coming on, and the person who holds the string must stand within a door or window, or under some cover, so that the silk ribbon may not be wet; and care must be taken that the twine does not touch the frame of the door or window. As soon as any of the thunder clouds come over the kite, the pointed wire will draw the electric fire from them, and the kite, with all the twine, will be electrified, and the loose filaments of the twine will stand out every way, and be attracted by an approaching finger. And when the rain has wetted the kite and twine, so that it can conduct the electric fire freely, you will find it stream out plentifully from the key on the approach of your knuckle. At this key the phial may be charged; and from electric fire thus obtained, spirits may be kindled, and all the other electric experiments be performed, which are usually done by the help of a rubbed glass globe or tube, and thereby the sameness of the electric matter with that of lightning completely demonstrated.

B. FRANKLIN.

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*To the Same.*

SIR,  
Philadelphia, Sept. 1753

In my former paper on this subject, written first in 1747, enlarged and sent to England in 1749, I considered the sea as the grand source of lightning, imagining its luminous appearance to be owing to electric fire, produced by friction between the particles of water and those of salt. Living far from the sea, I had then no opportunity of making experiments on the sea-water, and so embraced this opinion too hastily.

For in 1750, and 1751, being occasionally on the sea-coast, I found, by experiments, that sea-water in a bottle

though at first it would by agitation appear luminous, yet in a few hours it lost that virtue: *hence, and from this,* that I could not by agitating a solution of sea-salt in water produce any light, I first began to doubt of my former hypothesis, and to suspect that the luminous appearance in sea-water must be owing to some other principles.

I then considered whether it were not possible, that the particles of air, being electrics *per se*, might, in hard gales of wind, by their friction against trees, hills, buildings, &c. as so many minute electric globes, rubbing against non-electric cushions, draw the electric fire from the earth, and that the rising vapours might receive that fire from the air, and by such means the clouds become electrified.

If this were so, I imagined that by forcing a constant violent stream of air against my prime conductor, by bellows, I should electrify it *negatively*; the rubbing particles of air, drawing from it part of its natural quantity of the electric fluid. I accordingly made the experiment, but it did not succeed.

In September 1752, I erected an iron rod to draw the lightning down into my house, in order to make some experiments on it, with two bells to give notice when the rod should be electrified: a contrivance obvious to every electrician.

I found the bells rang sometimes when there was no lightning or thunder, but only a dark cloud over the rod; that sometimes after a flash of lightning they would suddenly stop; and at other times, when they had not rang before, they would after a flash, suddenly begin to ring; that the electricity was sometimes very faint, so that, when a small spark was obtained, another could not be got for some time after; at other times the sparks would follow extremely quick, and once I had a continual stream from bell to bell, the size of a crow-quill: even during the same gust there were considerable variations.

In the winter following I conceived an experiment, to try whether the clouds were electrified *positively* or *negatively*; but my pointed rod, with its apparatus, becoming out of order, I did not refit it till towards the spring, when I expected the warm weather would bring on more frequent thunder-clouds.

The experiment was this:—To take two phials; charge one of them with lightning from the iron rod, and give the other an equal charge by the electric glass globe, through the prime conductor: when charged, to place them on a table within three or four inches of each other, a small cork ball being suspended by a fine silk thread from the ceiling, so as it might play between the wires. If both bottles then were electrified *positively*, the ball, being attracted and repelled by one, must be also repelled by the other. If the one *positively*, and the other *negatively*, then the ball would be attracted and repelled alternately by each, and continue to play between them as long as any considerable charge remained.

Being very intent on making this experiment, it was no small mortification to me, that I happened to be abroad during two of the greatest thunder-storms we had early in the spring; and though I had given orders in my family, that if the bells rang when I was from home, they should catch some of the lightning for me in electrical phials, and they did so, yet it was mostly dissipated before my return; and in some of the other gusts, the quantity of lightning I was able to obtain was so small, and the charge so weak, that I could not satisfy myself: yet I sometimes saw what heightened my suspicions, and inflamed my curiosity.

At last, on the 12th of April, 1758, there being a smart gust of some continuance, I charged one phial pretty well with lightning, and the other equally, as near as I could judge, with electricity from my glass globe; and, having placed them properly, I beheld, with great surprise and

pleasure, the cork ball play briskly between them; and was convinced that one bottle was electrified *negatively*.

I repeated this experiment several times during the gust, and in eight succeeding gusts, always with the same success; and being of opinion (for reasons I formerly gave in my letter to Mr. Kinnersley, since printed in London) that the glass globe electrises *positively*, I concluded that the clouds are *always* electrised *negatively*, or have always in them less than their natural quantity of the electric fluid.

Yet, notwithstanding so many experiments, it seems I concluded too soon; for at last, June the 6th, in a gust which continued from five o'clock, P. M. to seven, I met with one cloud that was electrified positively, though several that passed over my rod before, during the same gust, were in the negative state. This was thus discovered:

I had another concurring experiment, which I often repeated, to prove the negative state of the clouds, viz. while the bells were ringing, I took the phial charged from the glass globe, and applied its wire to the erected rod, considering, that if the clouds were electrified *positively*, the rod which received its electricity from them must be so too; and then the additional *positive* electricity of the phial would make the bells ring faster:—But, if the clouds were in a *negative* state, they must exhaust the electric fluid from my rod, and bring that into the same negative state with themselves, and then the wire of a positively charged phial, supplying the rod with what it wanted (which it was obliged otherwise to draw from the earth by means of the pendulous brass ball playing between the two bells), the ringing would cease till the bottle was discharged.

In this manner I quite discharged into the rod several phials that were charged from the glass globe, the electric fluid streaming from the wire to the rod, till the wire would receive no spark from the finger; and, during this supply to the rod from the phial, the bells stopped ringing; but by

continuing the application of the phial wire to the rod, I exhausted the natural quantity from the inside surface of the same phials, or, as I call it, charged them *negatively*.

At length, while I was charging a phial by my glass globe, to repeat this experiment, my bells of themselves, stopped ringing, and, after some pause, began to ring again. But now, when I approached the wire of the charged phial to the rod, instead of the usual stream that I expected from the wire to the rod, there was no spark; not even when I brought the wire and the rod to touch; yet the bells continued ringing vigorously, which proved to me, that the rod was then *positively* electrified, as well as the wire of the phial, and equally so; and, consequently, that the particular cloud then over the rod was in the same positive state. This was near the end of the gust.

But this was a single experiment, which, however, destroys my first too general conclusion, and reduces me to this: *That the clouds of a thunder-gust are most commonly in a negative state of electricity, but sometimes in a positive state.*

The latter, I believe, is rare; for though I soon after the last experiment set out on a journey to Boston, and was from home most part of the summer, which prevented my making farther trials and observations; yet Mr. Kinnersley, returning from the islands just as I left home, pursued the experiments during my absence, and informs me that he always found the clouds in the *negative* state.

So that, for the most part, in thunder-strokes, *it is the earth that strikes into the clouds, and not the clouds that strike into the earth.*

Those who are versed in electric experiments, will easily conceive, that the effects and appearances must be nearly the same in either case; the same explosion, and the same flash between the one cloud and another, and between the clouds and mountains, &c. the same rending of trees,

walls, &c. which the electric fluid meets with in its passage, and the same fatal shock to animal bodies; and that pointed rods fixed to buildings, or masts of ships, and communicating with the earth or sea, must be of the same service in restoring the equilibrium silently between the earth and clouds; or in conducting a flash or stroke, if one should be, so as to save harmless the house or vessel: for points have equal power to throw off, as to draw on, the electric fire, and rods will conduct up as well as down.

But though the light gained from these experiments makes no alteration in the practice, it makes a considerable one in the theory. And now we as much need an hypothesis to explain by what means the clouds become negatively, as before to shew how they became positively electrified.

I cannot forbear venturing some few conjectures on this occasion: they are what occur to me at present, and though future discoveries should prove them not wholly right, yet they may in the mean time be of some use, by stirring up the curious to make more experiments, and occasion more exact disquisitions.

I conceive, then, that this globe of earth and water, with its plants, animals, and buildings, have diffused throughout their substance, a quantity of the electric fluid, just as much as they can contain, which I call the *natural quantity*.

That this natural quantity is not the same in all kinds of common matter under the same dimensions, nor in the same kind of common matter in all circumstances; but a solid foot, for instance, of one kind of common matter may contain more of the electric fluid than a solid foot of some other kind of common matter; and a pound weight of the same kind of common matter may, when in a rarer state, contain more of the electric fluid than when in a denser state.

For the electric fluid, being attracted by any portion of common matter, the parts of that fluid (which have among themselves a mutual repulsion) are brought so near to each other by the attraction of the common matter, that absorbs them, as that their repulsion is equal to the condensing power of attraction in common matter ; and then such portion of common matter will absorb no more.

Bodies of different kinds having thus attracted and absorbed what I call their *natural quantity*, i. e. just as much of the electric fluid as is suited to their circumstances of density, rarity, and power of attracting, do not then show any signs of electricity among each other.

And if more electric fluid be added to one of these bodies, it does not enter, but spreads on the surface, forming an atmosphere ; and then such body shews signs of electricity.

I have in a former paper compared common matter to a sponge, and the electric fluid to water ; I beg leave once more to make use of the same comparison, to illustrate farther my meaning in this particular.

When a sponge is somewhat condensed by being squeezed between the fingers, it will not receive and retain so much water as when in its more loose and open state.

If more squeezed and condensed, some of the water will come out of its inner parts, and flow on the surface.

If the pressure of the fingers be entirely removed, the sponge will not only resume what was lately forced out, but attract an additional quantity.

As the sponge in its rarer state will *naturally* attract and absorb *more* water, and in its denser state will *naturally* attract and absorb *less* water ; we may call the quantity it attracts and absorbs in either state, its *natural quantity*, the state being considered.

Now what sponge is to water, the same is water to the electric fluid.

When a portion of water is in its common dense state, it can hold no more electric fluid than it has : if any be added, it spreads on the surface.

When the same portion of water is rarefied into vapour, and forms a cloud, it is then capable of receiving and absorbing a much greater quantity ; there is room for each particle to have an electric atmosphere.

Thus water, in its rarefied state, or in the form of a cloud, will be in a negative state of electricity ; it will have less than its *natural quantity* ; that is, less than it is naturally capable of attracting and absorbing in that state.

Such a cloud, then, coming so near the earth as to be within the striking distance, will receive from the earth a flash of the electric fluid ; which flash to supply a great extent of cloud, must sometimes contain a very great quantity of that fluid.

Or such a cloud, passing over woods of tall trees, may, from the points and sharp edges of their moist top leaves, receive silently some supply.

A cloud being by any means supplied from the earth, may strike into other clouds that have not been supplied, or not so much supplied ; and those to others, till an equilibrium is produced among all the clouds that are within striking distance of each other.

The cloud thus supplied, having parted with much of what it first received, may require and receive a fresh supply from the earth, or from some other cloud, which by the wind is brought into such a situation as to receive it more readily from the earth.

Hence repeated and continual strokes and flashes till the clouds have all got nearly their natural quantity as clouds, or till they have descended in showers, and are united again with this terraqueous globe, their original.

Thus, thunder-clouds are generally in a negative state of electricity compared with the earth, agreeable to most of

our experiments; yet as by one experiment we found a cloud electrised positively, I conjecture that, in that case, such cloud, after having received what was, in its rare state, only its *natural quantity*, became compressed by the driving winds, or some other means, so that part of what it had absorbed was forced out, and formed an electric atmosphere around it in its denser state. Hence it was capable of communicating positive electricity to my rod.

To show that a body in different circumstances of dilatation and contraction is capable of receiving and retaining more or less of the electric fluid on its surface, I would relate the following experiment: I placed a clean wine glass on the floor, and on it a small silver can. In the can I put about three yards of brass chain; to one end of which I fastened a silk thread, which went right up to the ceiling, where it passed over a pulley, and came down again to my hand, that I might at pleasure draw the chain up out of the can, extending it till within a foot of the ceiling, and let it gradually sink into the can again.—From the ceiling, by another thread of fine raw silk, I suspended a small light lock of cotton, so as that when it hung perpendicularly, it came in contact with the side of the can. Then approaching the wire of a charged phial to the can, I gave it a spark, which flowed round in an electric atmosphere; and the lock of cotton was repelled from the side of the can to the distance of about nine or ten inches. The can would not then receive another spark from the wire of the phial; but as I gradually drew up the chain, the atmosphere of the can diminished by flowing over the rising chain, and the lock of cotton accordingly drew nearer and nearer to the can; and then, if I again brought the phial wire near the can, it would receive another spark, and the cotton fly off again to its first distance; and thus, as the chain was drawn higher, the can would receive more sparks; because the can and extended chain were

capable of supporting a greater atmosphere than they can with the chain gathered up into its belly. And that the atmosphere round the can was diminished by raising the chain, and increased again by lowering it, is not only agreeable to reason, since the atmosphere of the chain must be drawn from that of the can, when it rose, and returned to it again when it fell ; but was also evident to the eye, the lock of cotton always approaching the can when the chain was drawn up, and receding when it was let down again.

Thus we see that increase of surface makes a body capable of receiving a greater electric atmosphere : but this experiment does not, I own, fully demonstrate my new hypothesis ; for the brass and silver still continue in their solid state, and are not rarefied into vapour, as the water is in clouds. Perhaps some future experiments on vapourized water may set this matter in a clearer light.

One seemingly material objection arises to the new hypothesis, and it is this : If water, in its rarefied state, as a cloud, requires and will absorb more of the electric fluid than when in its dense state as water, why does it not acquire from the earth all it wants at the instant of its leaving the surface, while it is yet near, and but just rising in vapour ? To this difficulty I own I cannot at present give a solution satisfactory to myself : I thought, however, that I ought to state it in its full force, as I have done, and submit the whole to examination.

And I would beg leave to recommend it to the curious in this branch of natural philosophy, to repeat with care and accurate observation the experiments I have reported in this and former papers relating to positive and negative electricity, with such other relative ones as shall occur to them, that it may be certainly known whether the electricity communicated by a glass globe, be *really positive*. And also I would request all who may have an opportu-

nity of observing the recent effects of lightning on buildings, trees, &c. that they would consider them particularly with a view to discover the direction. But in these examinations, this one thing is always to be understood, viz. that a stream of the electric fluid passing through wood, brick, metal, &c. while such fluid passes in *small quantity*, the mutually repulsive power of its parts is confined and overcome by the cohesion of the parts of the body it passes through, so as to prevent an explosion; but when the fluid comes in a quantity too great to be confined by such cohesion, it explodes, and rends or fuses the body that endeavoured to confine it. If it be wood, brick, stone, or the like, the splinters will fly off on that side where there is least resistance. And thus, when a hole is struck through pasteboard by the electrified jar, if the surfaces of the pasteboard are not confined or compressed, there will be a bur raised all round the hole on both sides the pasteboard; but if one side be confined, so that the bur cannot be raised on that side, it will be all raised on the other, which way soever the fluid was directed. For the bur round the outside of the hole is the effect of the explosion every way from the centre of the stream, and not an effect of the direction.

In every stroke of lightning, I am of an opinion that the stream of the electric fluid, moving to restore the equilibrium between the cloud and the earth, does always previously find its passage, and mark out, as I may say its own course, taking in its way all the conductors it can find, such as metals, damp walls, moist wood, &c. and will go considerably out of a direct course, for the sake of the assistance of good conductors; and that, in this course, it is actually moving, though silently and imperceptibly, before the explosion, in and among the conductors; which explosion happens only when the conductors cannot discharge it as fast as they receive it, by reason of their being incom-

plete, disunited, too small or not of the best materials for conducting. Metalline rods, therefore, of sufficient thickness, and extending from the highest part of an edifice to the ground, being of the best materials and complete conductors, will, I think, secure the building from damage, either by restoring the equilibrium so fast as to prevent a stroke, or by conducting it in the substance of the rod as far as the rod goes, so that there shall be no explosion but what is above its point, between that and the clouds.

If it be asked what thickness of metalline rod may be supposed sufficient? In answer, I would remark, that five large glass jars, such as I have described in my former papers, discharge a very great quantity of electricity, which nevertheless will be all conducted round the corner of a book, by the fine filleting of gold on the cover, it following the gold the farthest way about, rather than take the shorter course through the cover, that not being so good a conductor. Now in this line of gold, the metal is so extremely thin as to be little more than the colour of gold, and on an octavo book is not in the whole an inch square, and therefore not the thirty-sixth part of a grain, according to M. Reaumur; yet it is sufficient to conduct the charge of five large jars, and how many more I know not. Now, I suppose a wire of a quarter of an inch diameter to contain about five thousand times as much metal as there is in that gold line, and if so, it will conduct the charge of twenty-five thousand such glass jars, which is a quantity, I imagine, far beyond what was ever contained in any one stroke of natural lightning. But a rod of half an inch diameter would conduct four times as much as one of a quarter.

And with regard to conducting, though a certain thickness of metal be required to conduct a great quantity of electricity, and, at the same time, keep its own substance firm and unseparated: and a less quantity, as a very small

wire for instance, will be destroyed by the explosion ; yet such small wires will have answered the end of conducting that stroke, though it become incapable of conducting another. And considering the extreme rapidity with which the electric fluid moves without exploding, when it has a free passage, or complete metal communication, I should think a vast quantity would be conducted in a short time, either to or from a cloud, to restore its equilibrium with the earth, by means of a very small wire ; and therefore thick rods should seem not so necessary. However, as the quantity of lightning discharged in one stroke, cannot well be measured, and, in different strokes is certainly very various, in some much greater than others ; and as iron (the best metal for the purpose, being least apt to fuse) is cheap, it may be well enough to provide a larger canal to guide that impetuous blast than we imagine necessary : for, though one middling wire may be sufficient, two or three can do no harm. And time, with careful observations well compared, will at length point out the proper size to greater certainty.

Pointed rods erected on edifices may likewise often prevent a stroke in the following manner :—An eye so situated as to view horizontally the under side of a thunder-cloud, will see it very ragged, with a number of separate fragments, or petty clouds, one under another. the lowest sometimes not far from the earth. These, as so many stepping stones, assist in conducting a stroke between the cloud and a building. To represent these by an experiment, take two or three locks of fine loose cotton, connect one of them with the prime conductor by a fine thread of two inches (which may be spun out of the same lock by the fingers) another to that, and the third to the second, by like threads. Turn the globe and you will see these locks extend themselves towards the table (as the lower small clouds do towards the earth) being attracted by it : but on

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presenting a sharp point erect under the lowest, it will shrink up to the second, the second to the first, and all together to the prime conductor, where they will continue as long as the point continues under them. May not, in like manner, the small electrised clouds, whose equilibrium with the earth is soon restored by the point, rise up to the main body, and by that means occasion so large a vacancy, at that the grand cloud cannot strike in that place.

These thoughts, my dear friend, are many of them crude and hasty; and if I were merely ambitious of acquiring some reputation in philosophy, I ought to keep them by me, till corrected and improved by time and farther experience. But since even short hints and imperfect experiments in any new branch of science, being communicated, have oftentimes a good effect, in exciting the attention of the ingenious to the subject, and so become the occasion of more exact disquisitions, and more complete discoveries, you are at liberty to communicate this paper to whom you please; it being of more importance that knowledge should increase, than that your friend should be thought an accurate philosopher,

B. FRANKLIN.

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### TO DR. PRINGLE, IN LONDON.

*Relating a curious Instance of the Effect of Oil on Water.*

SIR,

Philadelphia, Dec. 1, 1762.

During our passage to Madeira, the weather being warm, and the cabin windows constantly open for the benefit of the air, the candles at night flared and run very much, which was an inconvenience. At Madeira, we got

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oil to burn; and with a common glass tumbler or beaker, slung in wire, and suspended to the ceiling of the cabin, and a little wire hoop for the wick, furnished with corks to float on the oil, I made an Italian lamp, that gave us very good light all over the table. The glass at bottom contained water to about one third of its height; another third was taken up with oil; the rest was left empty that the sides of the glass might protect the flame from the wind. There is nothing remarkable in all this; but what follows is particular. At supper, looking on the lamp, I remarked, that though the surface of the oil was perfectly tranquil, and duly preserved its position and distance with regard to the brim of the glass, the water under the oil was in great commotion, rising and falling in irregular waves, which continued during the whole evening. The lamp was kept burning as a watch light all night till the oil was spent, and the water only remained. In the morning I observed, that though the motion of the ship continued the same, the water was now quiet, and its surface as tranquil as that of the oil had been the evening before. At night again, when oil was put upon it, the water resumed its irregular motions, rising in high waves almost to the surface of the oil, but without disturbing the smooth level of that surface. And this was repeated every day during the voyage.

Since my arrival in America, I have repeated the experiment frequently, thus: I have put a pack-thread round a tumbler, with strings of the same, from each side, meeting above it in a knot at about a foot distance from the top of the tumbler. Then putting in as much water as would fill about one third part of the tumbler, I lifted it up by the knot, and swung it to and fro in the air; when the water appeared to keep its place in the tumbler as steadily as if it had been ice. But pouring gently in upon the water about as much oil, and then again swinging it in the air as before, the tranquillity before possessed by the water was

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transferred to the surface of the oil, and the water under it was agitated with the same commotions as at sea.

I have shewn this experiment to a number of ingenious persons. Those who are but slightly acquainted with the principles of hydrostatics, &c. are apt to fancy immediately that they understand it, and readily attempt to explain it; but their explanations have been different, and to me not very intelligible. Others, more deeply skilled in those principles, seem to wonder at it, and promise to consider it. And I think it is worth considering: for a new appearance, if it cannot be explained by our old principles, may afford us new ones, of use perhaps in explaining some other obscure parts of natural knowledge.

I am, &c.

B. FRANKLIN.

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### TO DR. BROWNRIGG.

DEAR SIR, *London, Nov. 7, 1773.*

I thank you for the remarks of your learned friend at Carlisle. I had, when a youth, read and smiled at Pliny's account of a practice among the seamen of his time, to still the waves in a storm by pouring oil into the sea; which he mentions, as well as the use made of oil by the divers; but the stilling a tempest by throwing vinegar into the air had escaped me. I think with your friend, that it has been of late too much the mode to slight the learning of the ancients. The learned, too, are apt to slight too much the knowledge of the vulgar. The cooling by evaporation was long an instance of the latter. This art of smoothing the waves by oil is an instance of both.

Perhaps you may not dislike to have an account of all I have heard, and learnt, and done in this way. Take it, if you please, as follows.

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In 1757, being at sea in a fleet of 96 sail bound against Louisbourg, I observed the wakes of two of the ships to be remarkably smooth, while all the others were ruffled by the wind, which blew fresh. Being puzzled with the differing appearance, I at last pointed it out to our captain, and asked him the meaning of it. "The cooks," says he, "have, I suppose, been just emptying their greasy water through the scuppers, which has greased the sides of these ships a little;" and this answer he gave me with an air of some little contempt, as to a person ignorant of what every body else knew. In my own mind I at first slighted his solution, though I was not able to think of another; but, recollecting what I had formerly read in Pliny, I resolved to make some experiment of the effect of oil on water, when I should have opportunity.

Afterwards being again at sea in 1762, I first observed the wonderful quietness of oil on agitated water, in the swinging glass lamp I made to hang up in the cabin, as described in my printed papers\*. This I was continually looking at and considering, as an appearance to me inexplicable. An old sea captain, then a passenger with me, thought little of it, supposing it an effect of the same kind with that of oil put on water to smooth it, which he said was a practice of the Bermudians when they would strike fish, which they could not see, if the surface of the water was ruffled by the wind. This practice I had never before heard of, and was obliged to him for the information; though I thought him mistaken as to the sameness of the experiment, the operations being different as well as the effects. In one case, the water is smooth till the oil is put on, and then becomes agitated. In the other it is agitated before the oil is applied, and then becomes smooth,

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\* See the preceding paper.

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The same gentleman told me, he had heard it was a practice with the fishermen of Lisbon, when about to return into the river (if they saw before them too great a surf upon the bar, which they apprehended might fill their boats in passing) to empty a bottle or two of oil into the sea, which would suppress the breakers, and allow them to pass safely: A confirmation of this I have not had an opportunity of obtaining: but discoursing of it with another person, who had often been in the Mediterranean, I was informed, that the divers there, who, when under water in their business, need light which the curling of the surface interrupts by the refractions of so many little waves, let a small quantity of oil now and then out of their mouths, which rising to the surface smooths it, and permits the light to come down to them. All these informations I at times revolved in my mind, and wondered to find no mention of them in our books of experimental philosophy.

At length being at Clapham, where there is, on the common, a large pond, which I observed one day, to be very rough with the wind, I fetched out a cruet of oil, and dropt a little of it on the water. I saw it spread itself with surprising swiftness upon the surface: but the effect of smoothing the waves was not produced; for I had applied it first on the leeward side of the pond, where the waves were largest, and the wind drove my oil back upon the shore. I then went to the windward side where they began to form; and there the oil, though not more than a tea spoonful, produced an instant calm over a space several yards square, which spread amazingly, and extended itself gradually till it reached the lee side, making all that quarter of the pond, perhaps half an acre, as smooth as a looking-glass.

After this I contrived to take with me, whenever I went into the country, a little oil in the upper hollow joint of a bamboo cane, with which I might repeat the experiment.

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as opportunity should offer, and I found it constantly to succeed.

In these experiments, one circumstance struck me with particular surprise. This was the sudden, wide, and forcible spreading of a drop of oil on the face of the water, which I do not know that any body has hitherto considered. If a drop of oil is put on a highly polished marble table, or on a looking-glass that lies horizontally, the drop remains in its place, spreading very little. But when put on water, it spreads instantly many feet round, becoming so thin as to produce the prismatic colours, for a considerable space, and beyond them so much thinner as to be invisible, except in its effect of smoothing the waves at a much greater distance. It seems as if a mutual repulsion between its particles took place as soon as it touched the water, and a repulsion so strong as to act on other bodies swimming on the surface, as straw, leaves, chips, &c. forcing them to recede every way from the drop, as from a centre, leaving a large clear space. The quantity of this force, and the distance to which it will operate, I have not yet ascertained; but I think it a curious inquiry, and I wish to understand whence it arises.

In our journey to the north, when we had the pleasure of seeing you at Ormathwaite, we visited the celebrated Mr. Smeaton, near Leeds. Being about to show him the smoothing experiment on a little pond near his house, an ingenious pupil of his, Mr. Jessop, then present, told us of an odd appearance on that pond, which had lately occurred to him. He was about to clean a little cup in which he kept oil, and he threw upon the water some flies that had been drowned in the oil. These flies presently began to move, and turned round on the water very rapidly, as if they were vigorously alive, though on examination he found they were not so. I immediately concluded that the motion was occasioned by the power of the repulsion

above mentioned, and that the oil issuing gradually from the spungy body of the fly continued the motion. He found some more flies drowned in oil, with which the experiment was repeated before us. To shew that it was not any effect of life recovered by the flies, I imitated it by little bits of oiled chips and paper cut in the form of a comma, of the size of a common fly; when the stream of repelling particles issuing from the point made the comma turn round the contrary way. This is not a chamber experiment; for it cannot be well repeated in a bowl or dish of water on the table. A considerable surface of water is necessary to give room for the expansion of a small quantity of oil. In a dish of water, if the smallest drop of oil be let fall in the middle, the whole surface is presently covered with a thin greasy film proceeding from the drop; but as soon as that film has reached the sides of the dish, no more will issue from the drop, but it remains in the form of oil, the sides of the dish putting a stop to its dissipation by prohibiting the farther expansion of the film.

Our friend Sir John Pringle, being soon after in Scotland, learned there that those employed in the herring-fishery could at a distance see where the shoals of herring were, by the smoothness of the water over them, which might possibly be occasioned, he thought, by some oiliness proceeding from their bodies.

A gentleman from Rhode Island told me, it had been remarked, that the harbour of Newport was ever smooth while any whaling vessels were in it; which probably arose from hence, that the blubber which they sometimes bring loose in the hold, or the leakage of their barrels, might afford some oil, to mix with that water, which from time to time they pump out to keep their vessel free, and that some oil might spread over the surface of the water in the harbour, and prevent the forming of any waves.

• This prevention I would thus endeavour to explain.

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There seems to be no natural repulsion between water and air, such as to keep them from coming into contact with each other. Hence we find a quantity of air in water; and if we extract it by means of the air-pump, the same again exposed to the air, will soon imbibe an equal quantity.

Therefore, air in motion, which is wind, in passing over the smooth surface of water, may rub, as it were, upon that surface, and raise it into wrinkles, which, if the wind continues, are the elements of future waves.

The smallest wave once raised does not immediately subside, and leave the neighbouring water quiet: but in subsiding raises nearly as much of the water next to it, the friction of the parts making little difference. Thus a stone dropped in a pool raises first a single wave round itself; and leaves it, by sinking to the bottom; but that first wave subsiding raises a second, the second a third, and so on in circles to a great extent.

A small power continually operating will produce a great action. A finger applied to a weighty suspended bell can at first move it but little; if repeatedly applied, though with no greater strength, the motion increases till the bell swings to its utmost height, and with a force that cannot be resisted by the whole strength of the arm and body. Thus the small first-raised waves, being continually acted upon by the wind, are, though the wind does not increase in strength, continually increased in magnitude, rising higher and extending their bases, so as to include a vast mass of water in each wave, which in its motion acts with great violence.

But if there be a mutual repulsion between the particles of oil, and no attraction between oil and water, oil dropped on water will not be held together by adhesion to the spot, whereon it falls; it will not be imbibed by the water; it will be at liberty to expand itself: and it will spread on a

surface that besides being smooth to the most perfect degree of polish, prevents perhaps, by repelling the oil, all immediate contact, keeping it at a minute distance from itself; and the expansion will continue till the mutual repulsion between the particles of the oil is weakened and reduced to nothing by their distance.

Now I imagine that the wind, blowing over water thus covered with a film of oil, cannot easily catch upon it, so as to raise the first wrinkles, but slides over it, and leaves it smooth as it finds it. It moves a little the oil, indeed, which, being between it and the water, serves it to slide with, and prevents friction, as oil does between those parts of a machine, that would otherwise rub hard together. Hence the oil dropped on the windward side of a pond proceeds gradually to leeward, as may be seen by the smoothness it carries with it, quite to the opposite side. For the wind being thus prevented from raising the first wrinkles, that I call the elements of waves, cannot produce waves, which are to be made by continually acting upon, and enlarging those elements, and thus the whole pond is calmed.

Totally therefore we might suppress the waves in any required place, if we could come at the windward place where they take their rise. This in the ocean can seldom if ever be done. But perhaps something may be done on particular occasions, to moderate the violence of the waves when we are in the midst of them, and prevent their breaking where that would be inconvenient.

For when the wind blows fresh, there are continually rising on the back of every great wave a number of small ones, which roughen its surface, and give the wind hold, as it were, to push it with greater force. This hold is diminished, by preventing the generation of those small ones. And possibly too, when a wave's surface is oiled, the wind, in passing over it, may rather in some degree press it down.

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and contribute to prevent it rising again, instead of promoting it.

This, as mere conjecture, would have little weight, if the apparent effects of pouring oil into the midst of waves were not considerable, and as yet not otherwise accounted for.

When the wind blows so fresh, as that the waves are not sufficiently quick in obeying its impulse, their tops, being thinner and lighter, are pushed forward, broken, and turned over in a white foam. Common waves lift a vessel without entering it; but these, when large, sometimes break above, and pour over it, doing great damage.

That this effect might in any degree be prevented, or the height and violence of waves in the sea moderated, we had no certain account; Pliny's authority for the practice of seamen in his time being slighted. But discoursing lately on this subject with his excellency Count Bentinck, of Holland, his son the honourable Captain Bentinck, and the learned Professor Allemand (to all whom I shewed the experiment of smoothing in a windy day the large piece of water at the head of the Green Park) a letter was mentioned, which had been received by the count from Batavia, relative to the saving of a Dutch ship in a storm, by pouring oil into the sea. I much desired to see that letter, and a copy of it was promised me, which I afterwards received.

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### *Extract of a Letter on the Same.*

" Near the islands Paul and Amsterdam, we met with a storm, which had nothing particular in it worthy of being communicated to you, except that the captain found himself obliged, for greater safety in wearing the ship, to pour

oil into the sea, to prevent the waves breaking over her, which had an excellent effect, and succeeded in preserving us. As he poured out but a little at a time, the East India Company owes perhaps its ship to only six demiames of oil-olive. I was present upon deck when this was done; and I should not have mentioned this circumstance to you, but that we have found people here so prejudiced against the experiment, as to make it necessary for the officers on board and myself to give a certificate of the truth on this head, of which we made no difficulty."

On this occasion, I mentioned to Captain Bentick a thought which had occurred to me in reading the voyages of our late circumnavigators, particularly where accounts are given of pleasant and fertile islands which they much desired to land upon, when sickness made it more necessary, but could not effect a landing through a violent surf breaking on the shore, which rendered it impracticable. My idea was, that possibly by sailing to and fro at some distance from such lee-shore, continually pouring oil into the sea, the waves might be so much depressed, and lessened before they reached the shore, as to abate the height and violence of the surf, and permit a landing; which, in such circumstances, was a point of sufficient importance to justify the expense of the oil that might be requisite for the purpose. That gentleman, who is ever ready to promote what may be of public utility, though his own ingenious inventions have not always met with the countenance they merited, was so obliging as to invite me to Portsmouth, where an opportunity would probably offer, in the course of a few days, of making the experiment on some of the shores about Spithead, in which he kindly proposed to accompany me, and to give assistance with such boats as might be necessary. Accordingly, about the middle of October last, I went with some friends to Portsmouth; and a day of wind happening, which made a

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lee-shore between Haslar-hospital and the point near Jillkeeker, we went from the Centaur with the long-boat and barge towards that shore. Our disposition was this: the long-boat was anchored about a quarter of a mile from the shore; part of the company were landed behind the point (a place more sheltered from the sea) who came round and placed themselves opposite to the long-boat, where they might observe the surf, and note if any change occurred in it upon using the oil. Another party, in the barge, plied to windward of the long-boat, as far from her as she was from the shore, making trips of about half a mile each, pouring oil continually out of a large stone-bottle, through a hole in the cork, somewhat bigger than a goose-quill. The experiment had not, in the main point, the success we wished, for no material difference was observed in the height or force of the surf upon the shore; but those who were in the long-boat could observe a tract of smoothed water, the whole of the distance in which the barge poured the oil, and gradually spreading in breadth towards the long-boat. I call it smoothed, not that it was laid level; but because, though the swell continued, its surface was not roughened by the wrinkles, or smaller waves, before-mentioned; and none or very few white caps (or waves whose tops turn over in foam) appeared in that whole space, though to windward and leeward of it there were plenty; and a wherry, that came round the point under sail, in her way to Portsmouth, seemed to turn into that tract of choice, and to use it from end to end, as a piece of turnpike-road.

It may be of use to relate the circumstances of an experiment that does not succeed, since they may give hints of amendment in future trials: it is therefore I have been thus particular. I shall only add what I apprehend may have been the reason of our disappointment.

I conceive, that the operation of oil on water is, first, to

prevent the rising of new waves by the wind: and, secondly, to prevent its pushing those before raised with such force, and consequently their continuance of the same repeated height, as they would have done, if their surface were not oiled. But oil will not prevent waves being raised by another power, by a stone for instance, falling into a still pool; for they then rise by the mechanical impulse of the stone, which the greasiness on the surrounding water cannot lessen or prevent, as it cannot prevent the winds catching the surface and raising it into waves. Now waves once raised, whether by the wind or any other power, have the same mechanical operation; by which they continue to rise and fall, as a *pendulum* will continue to swing, a long time after the force ceases to act by which the motion was first produced: that motion will, however, cease in time; but time is necessary. Therefore, though oil spread on an agitated sea may weaken the push of the wind on those waves whose surfaces are covered by it, and so, by receiving less fresh impulse, they may gradually subside; yet a considerable time, or a distance through which they will take time to move, may be necessary to make the effect sensible on any shore in a diminution of the surf: for we know, that when wind ceases suddenly, the waves it has raised do not as suddenly subside, but settle gradually, and are not quite down till after the wind has ceased. So though we should, by oiling them, take off the effect of wind on waves already raised, it is not to be expected that those waves should be instantly levelled. The motion they have received will, for some time, continue; and if the shore is not far distant, they arrive there so soon, that their effect upon it will not be visibly diminished. Possibly, therefore, if we had begun our operations at a greater distance, the effect might have been more sensible. And perhaps we did not pour oil in sufficient quantity. Future experiments may determine this.

I was, however, greatly obliged to Captain Bentick, for the cheerful and ready aids he gave me: and I ought not to omit mentioning Mr. Banks, Dr. Solander, General Carnoc, and Dr. Blagden, who all assisted at the experiment, during that blustering unpleasant day, with a patience and activity that could only be inspired by a zeal for the improvement of knowledge, such especially as might possibly be of use to men in situations of distress.

I would wish you to communicate this to your ingenious friend, Mr. Farish, with my respects; and believe me to be, with sincere esteem,

Dear Sir,

Your most obedient, humble servant,

B. FRANKLIN.

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FROM DR. PERKINS, OF BOSTON, TO B. FRANKLIN, ESQ.

*On the number of Deaths in Philadelphia by Inoculation.*

SIR,

*Boston, August 3, 1752.*

This comes to you on account of Dr. Douglas: he desired me to write to you for what you know of the number that died of the inoculation in Philadelphia, telling me he designed to write something on the small-pox shortly. We shall both be obliged to you for a word on this affair.

The chief particulars of our visitation you have in the public prints. But the less degree of mortality than usual in the common way of infection, seems chiefly owing to the purging method designed to prevent the secondary fever: a method first begun and carried on in this town, and with success beyond expectation. We lost one in eleven one-sixth, but had we been experienced in this way, at the first.

coming of the distemper, probably the proportion had been but one in thirteen or fourteen.

In the year 1730 we lost one in nine, which is more favourable than ever before with us. The distemper pretty much the same then as now, but some circumstances not so kind this time.

If there be any particulars which you want to know, please to signify what they are, and I shall send them.

The number of our inhabitants decreases. On a strict inquiry, the overseers of the poor find but fourteen thousand one hundred and ninety whites, and one thousand five hundred and forty-four blacks, including those absent, on account of the small-pox, many of whom, it is probable, will never return.

I pass this opportunity without any particulars of my old theme. One thing, however, I must mention, which is, that perhaps my last letters contained something that seemed to militate with your doctrine of the *origin*, &c. But my design was only to relate the phenomena as they appear to me. I have received so much light and pleasure from your writings, as to prejudice me in favour of every thing from your hand, and leave me only liberty to observe, and a power of dissenting when some great probability might oblige me: and if at any time that be the case, you will certainly hear of it.

I am, Sir, &c.

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FROM BENJAMIN FRANKLIN, ESQ. OF PHILADELPHIA.

*In Answer to the Preceding.*

SIR,

Philadelphia, Aug. 13, 1752.

I received your favour of the 3d instant. Some time last winter I procured from one of our physicians an ac-

count of the number of persons inoculated during the five visitations of the small-pox we have had in twenty-two years; which account I sent to Mr. W. V. of your town, and have no copy. If I remember right, the number exceeded eight hundred, and the deaths were but four. I suppose Mr. V. will show you the account, if he ever received it. Those four were all that our doctors allow to have died of the small-pox by inoculation, though I think there were two more of the inoculated who died of the distemper: but the eruptions appearing soon after the operation, it is supposed they had taken the infection before, in the common way.

I shall be glad to see what Dr. Douglas may write on the subject. I have a French piece printed at Paris, 1724, intitled, *Observations sur la Saignee, du Pied, et sur la Purgation au commencement de la Petite Verole, and Raisons de double contre l'Inoculation*. A letter of the doctor's is mentioned in it. If he or you have it not, and desire to see it, I will send it. Please to favour me with the particulars of your purging method, to prevent the secondary fever.

I am indebted for your preceding letter, but business sometimes obliges one to postpone philosophical amusements. Whatever I have wrote of that kind, are really as they are entitled, but *conjectures* and *suppositions*; which ought always to give place, when careful observation militates against them. I own I have too strong a penchant to the building of hypotheses; they indulge my natural indolence: I wish I had more of your patience and accuracy in making observations, on which alone true philosophy can be founded. And, I assure you, nothing can be more obliging to me, than your kind communication of those you make, however they may disagree with my pre-conceived notions.

I am sorry to hear that the number of your inhabitants

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decreas. I some time since wrote a small paper of thoughts on the peopling of countries, which, if I can find I will send you, to obtain your sentiments. The favourable opinion you express of my writings, may, you see, occasion you more trouble than you expected from,

Sir, your's &c.

B. FRANKLIN.

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TO BENJAMIN VAUGHAN, ESQ.

*On the Effects of Lead upon the human Constitution.*

DEAR FRIEND, Philadelphia, July 31, 1786.

I recollect that when I had last the pleasure of seeing you at Southampton, now a twelvemonth since, we had some conversation on the bad effects of lead taken inwardly; and that at your request I promised to send you in writing a particular account of several facts I then mentioned to you, of which you thought some good use might be made. I now sit down to fulfil that promise.

The first thing I remember of this kind was a general discourse in Boston when I was a boy, of a complaint from North Carolina against New England rum, that it poisoned their people, giving them the dry-belly-ache, with a loss of the use of their limbs. The distilleries being examined on the occasion, it was found, that several of them used leaden still-heads and worms, and the physicians were of opinion, that the mischief was occasioned by that use of lead. The legislature of Massachussets thereupon passed an act, prohibiting, under severe penalties, the use of such still-heads and worms hereafter.

In 1724, being in London, I went to work in the printing-house of Mr. Palmer, Bartholomew-close, as a

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compositor. I there found a practice, I had never seen before, of drying a case of types (which are wet in distribution) by placing it sloping before the fire. I found this had the additional advantage, when the types were not only dried but heated, of being comfortable to the hands working over them in cold weather. I therefore sometimes heated my case when the types did not want drying. But an old workman observing it, advised me not to do so, telling me I might lose the use of my hands by it, as two of our companions had nearly done; one of whom, that used to earn his guinea a week, could not then make more than ten shillings; and the other, who had the dangles, but seven and sixpence. This, with a kind of obscure pain, that I had sometimes felt, as it were, in the bones of my hand when working over the types made very hot, induced me to omit the practice. But talking afterwards with Mr. James, a letter-founder in the same Close, and asking him if his people, who worked over the little furnaces of melted metal, were not subject to that disorder, he made light of any danger from the effluvia, but ascribed it to particles of the metal swallowed with their food by slovenly workmen, who went to their meals after handling the metal, without well washing their fingers, so that some of the metallic particles were taken off by their bread, and eaten with it. This appeared to have some reason in it. But the pain I had experienced made me still afraid of those effluvia.

Being in Derbyshire at some of the furnaces for smelting of lead ore, I was told, that the smoke of those furnaces was pernicious to the neighbouring grass and other vegetables, but I do not recollect to have heard any thing of the effect of such vegetables eaten by animals. It may be well to make the inquiry.

In America I have often observed, that on the roofs of our shingled-houses, where moss is apt to grow in northern exposures, if there be any thing on the roof painted with

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white lead, such as balusters, or frames of dormant windows, &c. there is constantly a streak on the shingles from such paint down to the eaves, on which no moss will grow, but the wood remains constantly clean and free from it. We seldom drink rain-water that falls on our houses; and if we did, perhaps the small quantity of lead descending from such paint might not be sufficient to produce any sensible ill effect on our bodies. But I have been told of a case in Europe, I forget the place, where a whole family was afflicted with what we call the dry-belly-ach, or *colica pictorum*, by drinking rain-water. It was at a country-seat, which being situated too high to have the advantage of a well, was supplied with water from a tank, which received the water from the leaded roofs. This had been drank several years without mischief, but some young trees planted near the house growing up above the roof, and shedding their leaves upon it, it was supposed, that an acid in those leaves had corroded the lead they covered, and furnished the water of that year with its baneful particles and qualities.

When I was in Paris with Sir John Pringle in 1767, he visited *La Charite*, an hospital particularly famous for the cure of that malady, and brought from thence a pamphlet, containing a list of the names of persons, specifying their professions or trades, who had been cured there. I had the curiosity to examine that list, and found, that all the patients were of trades, that some way or other use or work in lead; such as plumbers, glaziers, painters, &c. excepting only two kinds, stone-cutters and soldiers. In them, I could not reconcile it to my notion, that lead was the cause of that disorder. But on my mentioning it to a physician of that hospital, he informed me, that the stone-cutters are continually using melted lead, to fix the ends of iron balustrades in stones; and that the soldiers had

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been employed by painters as labourers in grinding of colours.

This, my dear friend, is all I can at present recollect on the subject. You will see by it, that the opinion of this mischievous effect from lead, is at least above sixty years old; and you will observe with concern how long a useful truth may be known and exist, before it is generally received and practised on.

I am ever your's most affectionately,

B. FRANKLIN.

TO M. DUBOURG.

### *Observations on the prevailing Doctrines of Life and Death.*

\* \* \* Your observations on the causes of death, and the experiments which you propose for recalling to life those who appear to be killed by lightning, demonstrate equally your sagacity and your humanity. It appears, that the doctrines of life and death, in general, are yet but little understood.

A toad buried in sand will live, it is said, till the sand becomes petrified: and then, being inclosed in the stone, it may still live for we know not how many ages. The facts which are cited in support of this opinion are too numerous, and too circumstantial, not to deserve a certain degree of credit. As we are accustomed to see all the animals with which we are acquainted, eat and drink, it appears to us difficult to conceive, how a toad can be supported in such a dungeon: but if we reflect, that the necessity of nourishment, which animals experience in their ordinary state, proceeds from the continual waste of their

substance by perspiration, it will appear less incredible, that some animals in a torpid state, perspiring less because they use no exercise, should have less need of aliment; and that others, which are covered with scales or shells, which stop perspiration, such as land and sea turtles, serpents, and some species of fish, should be able to subsist a considerable time without any nourishment whatever. A plant, with its flowers, fades and dies immediately, if exposed to the air without having its root immersed in a humid soil, from which it may draw a sufficient quantity of moisture to supply that which exhales from its substance, and is carried off continually by the air. Perhaps, however, if it were buried in quicksilver, it might preserve for a considerable space of time its vegetable life, its smell and colour. If this be the case, it might prove a commodious method of transporting from distant countries those delicate plants, which are unable to sustain the inclemency of the weather at sea, and which require particular care and attention. I have seen an instance of common flies preserved in a manner somewhat similar. They had been drowned in Madeira wine, apparently about the time when it was bottled in Virginia, to be sent hither (to London). At the opening of one of the bottles, at the house of a friend where I then was, three drowned flies fell into the first glass that was filled. Having heard it remarked that drowned flies were capable of being revived by the rays of the sun, I proposed making the experiment upon these: they were therefore exposed to the sun upon a sieve, which had been employed to strain them out of the wine. In less than three hours, two of them began by degrees to recover life. They commenced by some convulsive motions of the thighs, and at length they raised themselves upon their legs, wiped their eyes with their fore-feet, beat and brushed their wings with their hind-feet, and soon after began to fly, finding themselves in Old England, without knowing

how they came thither. The third continued lifeless till sun-set, when, loosing all hopes of him, he was thrown away.

I wish it were possible, from this instance, to invent a method of embalming drowned persons, in such a manner that they may be recalled to life at any period, however distant; for having a very ardent desire to see and observe the state of America an hundred years hence, I should prefer to an ordinary death, the being immersed in a cask of Madeira wine, with a few friends till that time, to be then recalled to life by the solar warmth of my dear country! But since in all probability we live in an age too early and too near the infancy of science, to hope to see such an art brought in our time to its perfection, I must for the present content myself with the treat, which you are so kind as to promise me, of the resurrection of a fowl or turkey-cock.

I am, &c.

B. FRANKLIN.

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*On the Price of Corn, and Management of the Poor.*

TO MESSIEURS THE PUBLIC.

I am one of that class of people that feeds you all, and at present is abused by you all;—in short, I am a *farmer*.

By your news-papers we are told, that God had sent a very short harvest to some other countries of Europe. I thought this might be in favour of Old England; and that now we should get a good price for our grain, which would bring millions among us, and make us flow in money; that to be sure is scarce enough.

But the wisdom of government forbade the exportation.

Well, says I, then we must be content with the market-price at home.

No, say my lords the mob, you sha'n't have that. Bring your corn to market, if you dare;—we'll sell it for you, for less money, or take it for nothing.

Being thus attacked by both ends of the constitution, the head and tail of government, what am I to do?

Must I keep my corn in the barn, to feed and increase the breed of rats?—be it so;—they cannot be less thankful than those I have been used to feed.

Are we farmers the only people to be grudged the profits of our honest labour?—And why? One of the late scribblers against us gives a bill of fare of the provisions at my daughter's wedding, and proclaims to all the world, that we had the insolence to eat beef and pudding!—Has he not read the precept in the good book, *Thou shalt not muzzle the mouth of the ox that treadeth out the corn*; or does he think us less worthy of good living than our oxen?

O, but the manufacturers! the manufacturers! they are to be favoured, and they must have bread at a cheap rate!

Hark ye, Mr. Oaf;—The farmers live splendidly, you say. And pray, would you have them hoard the money they get? Their fine clothes and furniture, do they make them themselves or for one another, and so keep the money among them? Or, do they employ these your darling manufacturers, and so scatter it again all over the nation?

The wool would produce me a better price, if it were suffered to go to foreign markets; but that, Messieurs the Public, your laws will not permit. It must be kept all at home, that our dear manufacturers may have it the cheaper. And then, having yourselves thus lessened our encouragement for raising sheep, you curse us for the scarcity of mutton!

I have heard my grandfather say, that the farmers sub-

mitted to the prohibition on the exportation of wool, being made to expect and believe, that when the manufacturer bought his wool cheaper, they should also have their cloth cheaper. But the deuce a bit. It has been growing dearer and dearer from that day to this. How so? Why, truly, the cloth is exported; and that keeps up the price.

Now if it be a good principle, that the exportation of a commodity is to be restrained, that so our people at home may have it the cheaper; stick to that principle, and go thorough stitch with it. Prohibit the exportation of your cloth, your leather, and shoes, your iron-ware, and your manufactures of all sorts, to make them all cheaper at home. And cheap enough they will be, I will warrant you —till people leave off making them.

Some folks seem to think they ought never to be easy till England becomes another Lubberland, where it is fancied the streets are paved with penny-rolls, the houses tiled with pancakes, and chickens, ready roasted, cry, Come eat me.

I say, when you are sure you have got a good principle, stick to it, and carry it through. I hear it is said, that though it was *necessary and right* for the m——y to advise a prohibition of the exportation of corn, yet it was *contrary to law*; and also, that though it was *contrary to law* for the mob to obstruct waggons, yet it was *necessary and right*.—Just the same thing to a tittle. Now they tell me, an act of indemnity ought to pass in favour of the m——y, to secure them from the consequences of having acted illegally. If so, pass another in favour of the mob. Others say, some of the mob ought to be hanged, by way of example.—If so,—but I say no more than I have said before, *when you are sure that you have got a good principle, go through with it.*

You say, poor labourers cannot afford to buy bread at a high price, unless they had higher wages. Possibly.

But how shall we farmers be able to afford our labourers higher wages, if you will not allow us to get, when we might have it, a higher price for our corn?

By all that I can learn, we should at least have had a guinea a quarter more, if the exportation had been allowed. And this money England would have got from foreigners.

But, it seems, we farmers must take so much less, that the poor may have it so much cheaper.

This operates then as a tax for the maintenance of the poor. A very good thing, you will say. But I ask, why a partial tax? why laid on us farmers only? If it be a good thing, pray, Messieurs the Public, take your share of it, by indemnifying us a little out of your public treasury. In doing a good thing, there is both honour and pleasure —you are welcome to your share of both.

For my own part, I am not so well satisfied of the goodness of this thing. I am for doing good to the poor, but I differ in opinion about the means. I think the best way of doing good to the poor, is, not making them easy *in poverty*, but leading or driving them *out of it*. In my youth, I travelled much, and I observed in different countries, that the more public provisions were made for the poor, the less they provided for themselves, and of course became poorer. And, on the contrary, the less that was done for them, the more they did for themselves, and became richer. There is no country in the world where so many provisions are established for them; so many hospitals to receive them when they are sick or lame, founded and maintained by voluntary charities; so many alms-houses for the aged of both sexes, together with a solemn general law made by the rich to subject their estates to a heavy tax for the support of the poor. Under all these obligations, are our poor, modest, humble, and thankful? And do they use their best endeavours to maintain themselves, and

lighten our shoulders of this burden? On the contrary, I affirm, that there is no country in the world in which the poor are more idle, dissolute, drunken, and insolent. The day you passed that act, you took away from before their eyes the greatest of all inducements to industry, frugality, and sobriety, by giving them a dependance on somewhat else than a careful accumulation during youth and health for support in age or sickness. In short, you offered a premium for the encouragement of idleness, and you should not now wonder, that it has had its effect in the increase of poverty. Repeal that law, and you will soon see a change in their manners, *Saint Monday* and *Saint Tuesday* will soon cease to be holidays. *Six days shalt thou labour*, though one of the old commandments long treated as out of date, will again be looked upon as a respectable precept; industry will increase, and with it plenty among the lower people; their circumstances will mend, and more will be done for their happiness by inuring them to provide for themselves, than could be done by dividing all your estates among them.

Excuse me, Messieurs the Public, if, upon this *interesting* subject, I put you to the trouble of reading a little of *my* nonsense; I am sure I have lately read a great deal of *your's*, and therefore from you (at least from those of you who are writers) I deserve a little indulgence. I am *your's, &c.*

ARATOR.

TO BENJAMIN VAUGHAN, ESQ.

*On Luxury, Idleness, and Industry.*

Written in 1784.

It is wonderful how preposterously the affairs of this world are managed. Naturally one would imagine, that the interest of a few individuals should give way to general interest; but individuals manage their affairs with so much more application, industry, and address, than the public do theirs, that general interest most commonly gives way to particular. We assemble parliaments and councils, to have the benefit of their collected wisdom; but we necessarily have, at the same time, the inconvenience of their collected passions, prejudices, and private interests. By the help of these, artful men overpower their wisdom, and dupe its possessors: and if we may judge by the acts, arrets, and edicts, all the world over, for regulating commerce, an assembly of great men is the greatest fool upon earth.

I have not yet, indeed, thought of a remedy for luxury. I am not sure that in a great state it is capable of a remedy, nor that the evil is in itself always so great as it is represented. Suppose we include in the definition of luxury all unnecessary expense, and then let us consider, whether laws to prevent such expense are possible to be executed in a great country, and whether, if they could be executed, our people generally would be happier, or even richer. Is not the hope of being one day able to purchase and enjoy luxuries, a great spur to labour and industry? May not luxury therefore produce more than it consumes, if, without such a spur, people would be, as they are naturally enough inclined to be, lazy and indolent? To this purpose I remember a circumstance. The skipper of a shallop, employed between Cape May and Philadelphia,

had done us some small service, for which he refused to be paid. My wife, understanding that he had a daughter; sent her a present of a new-fashioned cap. Three years after, this skipper being at my house with an old farmer of Cape May, his passenger, he mentioned the cap, and how much his daughter had been pleased with it. "But," said he, "it proved a dear cap to our congregation." "How so?" "When my daughter appeared with it at meeting, it was so much admired, that all the girls resolved to get such caps from Philadelphia; and my wife and I computed, that the whole could not have cost less than a hundred pounds." "True," said the farmer, "but you do not tell all the story. I think the cap was nevertheless an advantage to us, for it was the first thing that put our girls upon knitting worsted mittens for sale at Philadelphia, that they might have wherewithal to buy caps and ribbons there, and you know that that industry has continued, and is likely to continue and increase to a much greater value, and answer better purposes." Upon the whole, I was more reconciled to this little piece of luxury, since not only the girls were made happier by having fine caps, but the Philadelphians by the supply of warm mittens.

In our commercial towns upon the sea-coast, fortunes will occasionally be made. Some of those who grow rich will be prudent, live within bounds, and preserve what they have gained for their posterity: others, fond of showing their wealth, will be extravagant, and ruin themselves. Laws cannot prevent this: and perhaps it is not always an evil to the public. A shilling spent idly by a fool, may be picked up by a wiser person, who knows better what to do with it. It is therefore not lost. A vain silly fellow builds a fine house, furnishes it richly, lives in it expensively, and in a few years ruins himself: but the masons, carpenters, smiths, and other honest tradesmen, have been by his employ assisted in maintaining and raising their fa-

milies; the farmer has been paid for his labour, and encouraged, and the estate is now in better hands. In some cases, indeed, certain modes of luxury may be a public evil, in the same manner as it is a private one. If there be a nation, for instance, that exports its beef and linen, to pay for the importation of claret and porter, while a great part of its people live upon potatoes, and wear no shirts, wherein does it differ from the set, who lets his family starve, and sells his clothes to buy drink? Our American commerce is, I confess, a little in this way. We sell our victuals to the islands for rum and sugar; the substantial necessaries of life for superfluities. But we have plenty, and live well nevertheless, though, by being soberer, we might be richer.

The vast quantity of forest land we have yet to clear, and put in order for cultivation, will for a long time keep the body of our nation laborious and frugal. Forming an opinion of our people and their manners, by what is seen among the inhabitants of the sea-ports, is judging from an improper sample. The people of the trading towns may be rich and luxurious, while the country possesses all the virtues that tend to promote happiness and public prosperity. Those towns are not much regarded by the country; they are hardly considered as an essential part of the states, and the experience of the last war has shown, that their being in the possession of the enemy did not necessarily draw on the subjection of the country, which bravely continued to maintain its freedom and independence notwithstanding.

It has been computed by some political arithmetician, that if every man and woman would work for four hours each day on something useful, that labour would produce sufficient to procure all the necessaries and comforts of life, want and misery would be banished out of the world,

and the rest of the twenty-four hours might be leisure and pleasure.

What occasions then so much want and misery? It is the employment of men and women in works, that produce neither the necessities nor conveniences of life, who, with those who do nothing, consume necessities raised by the laborious. To explain this.

The first elements of wealth are obtained by labour, from the earth and waters. I have land, and raise corn. With this, if I feed a family that does nothing, my corn will be consumed, and at the end of the year I shall be no richer than I was at the beginning. But if, while I feed them, I employ some in spinning, others in making bricks, &c. for building, the value of my corn will be arrested and remain with me, and at the end of the year we may all be better clothed and better lodged. And if, instead of employing a man I feed in making bricks, I employ him in fiddling for me, the corn he eats is gone, and no part of his manufacture remains to augment the wealth and convenience of the family: I shall therefore be the poorer for this fiddling man, unless the rest of my family work more or eat less to make up the deficiency he occasions.

Look round the world, and see the millions employed in doing nothing, or in something that amounts to nothing, when the necessities and conveniences of life are in question. What is the bulk of commerce, for which we fight and destroy each other, but the toil of millions for superfluities, to the great hazard and loss of many lives, by the constant dangers of the sea? How much labour is spent in building and fitting great ships, to go to China and Arabia for tea and coffee, to the West Indies for sugar, to America for tobacco? These things cannot be called the necessities of life, for our ancestors lived very comfortably without them.

A question may be asked: could all these people now employed in raising, making, or carrying superfluities, be subsisted by raising necessaries? I think they might. The world is large, and a great part of it still uncultivated. Many hundred millions of acres in Asia, Africa, and America, — are still in a forest, and a great deal even in Europe. On a hundred acres of this forest a man might become a substantial farmer, and an hundred thousand men, employed in clearing each his hundred acres, would hardly brighten a spot big enough to be visible from the moon, unless with Herschel's telescope; so vast are the regions still in wood.

It is, however, some comfort to reflect, that, upon the whole, the quantity of industry and prudence among mankind exceeds the quantity of idleness and folly. Hence the increase of good buildings, farms cultivated, and populous cities filled with wealth, all over Europe, which a few ages since were only to be found on the coasts of the Mediterranean; and this notwithstanding the mad wars continually raging, by which are often destroyed in one year the works of many years peace. So that we may hope the luxury of a few merchants on the coast will not be the ruin of America.

One reflection more, and I will end this long rambling letter. Almost all the parts of our bodies require some expense. The feet demand shoes, the legs stockings, the rest of the body clothing, and the belly a good deal of victuals. Our eyes, though exceedingly useful, ask, when reasonable, only the cheap assistance of spectacles, which could not much impair our finances. But the eyes of other people are the eyes that ruin us. If all but myself were blind, I should want neither fine clothes, fine houses, nor fine furniture.

*On Smuggling, and its various Species.*

SIR,

There are many people that would be thought, and even think themselves, *honest men*, who fail nevertheless in particular points of honesty; deviating from that character sometimes by the prevalence of mode or custom; and sometimes through mere inattention; so that their *honesty* is partial only, and not *general* or universal. Thus one, who who would scorn to over-reach you in a bargain, shall make no scruple of tricking you a little now and then at cards; another that plays with the utmost fairness, shall with great freedom cheat you in the sale of a horse. But there is no kind of dishonesty, into which otherwise good people more easily and frequently fall, than that of defrauding government of its revenues by smuggling, when they have an opportunity, or encouraging smugglers by buying their goods.

I fell into these reflections the other day, on hearing two gentlemen of reputation discoursing about a small estate, which one of them was inclined to sell, and the other to buy; when the seller, in recommending the place, remarked, tha. its situation was very advantageous on this account, that, being on the sea-coast in a smuggling country, one had frequent opportunities of buying many of the expensive articles used in a family (such as tea, coffee, chocolate, brandy, wines, canibries, Brussels laces, French silks, and all kinds of India goods), 20, 30, and in some articles 50 per cent. cheaper than they could be had in the more interior parts, of traders that paid duty. The other *honest* gentleman allowed this to be an advantage, but insisted, that the seller, in the advanced price he demanded on that account, rated the advantage much above its value. And neither of them seemed to think dealing with sinugglers a practice that an *honest man* (provided he

got his goods cheap) had the least reason to be ashamed of.

At a time when the load of our public debt, and the heavy expense of maintaining our fleets and armies to be ready for our defence on occasion, makes it necessary, not only to continue old taxes, but often to look out for new ones, perhaps it may not be unuseful to state this matter in a light that few seem to have considered it in.

The people of Great Britain, under the happy constitution of this country, have a privilege few other countries enjoy, that of choosing the third branch of the legislature, which branch has alone the power of regulating their taxes. Now whenever the government finds it necessary for the common benefit, advantage, and safety of the nation, for the security of our liberties, property, religion, and every thing that is dear to us, that certain sums shall be yearly raised by taxes, duties, &c. and paid into the public treasury, thence to be dispensed by government for those purposes; ought not every *honest man* freely and willingly to pay his just proportion of this necessary expense? Can he possibly preserve a right to that character, if, by any fraud, stratagem, or contrivance, he avoids that payment in whole or in part.

What should we think of a companion, who, having supped with his friends at a tavern, and partaken equally of the joys of the evening with the rest of us, would nevertheless contrive by some artifice to shift his share of the reckoning upon others, in order to go off scot-free? If a man who practised this would, when detected, be deemed and called a scoundrel, what ought he to be called who can enjoy all the inestimable benefits of public society, and yet by smuggling, or dealing with smugglers, contrive to evade paying his just share of the expense, as settled by his own representatives in parliament; and wrongfully throw it upon his honest and perhaps much poorer

neighbours? He will perhaps be ready to tell me, that he does not wrong his neighbours; he scorns the imputation, he only cheats the king a little, who is very able to bear it. This, however, is a mistake. The public treasure is the treasure of the nation, to be applied to national purposes. And when a duty is laid for a particular public and necessary purpose, if, through smuggling, that duty falls short of raising the sum required, and other duties must therefore be laid to make up the deficiency; all the additional sum laid by the new duties, and paid by other people, though it should amount to no more than a half-penny or a farthing per head, is so much actually picked out of the pockets of those other people by the smugglers and their abettors and encouragers. Are they then any better or other than pickpockets? and what mean, low, rascally pickpockets must those be, that can pick pockets for halfpence and for farthings?

I would not however be supposed to allow in what I have just said, that cheating the king is a less offence against honesty, than cheating the public. The king and the public in this case are different names for the same thing: but if we consider the king distinctly, it will not lessen the crime: it is no justification of a robbery, that the person robbed was rich and able to bear it. The king has as much right to justice as the meanest of his subjects; and as he is truly the common *father* of his people, those that rob him fall under the scripture woe, pronounced against the son *that robbeth his father, and saith it is no sin.*

Mean as this practice is, do we not daily see people of character and fortune engaged in it for trifling advantages to themselves? Is any lady ashamed to request of a gentleman of her acquaintance, that when he returns from abroad, he would smuggle her home a piece of silk or lace from France or Flanders? Is any gentleman ashamed to undertake and execute the commission? Not in the least.

Mechanics, servants, farmers, and so forth,  
Are *copy-paper*, of inferior worth;  
Less priz'd, more useful, for your desk decreed,  
Free to all pens, and prompt at ev'ry need.

The wretch, whom a'rice bids to pinch and spare,  
Starve, cheat, and pilfer, to enrich an heir,  
Is coarse *brown paper*; such as pedlars choose  
To wrap up wares, which better men will use.

Take next the miser's contrast, who destroys  
Health, fame, and fortune, in a round of joys.  
Will any paper match him? Yes, throughout,  
He's a true *sinking paper*, past all doubt.

The retail politician's anxious thought  
Deems *this* side always right, and *that* stark nought;  
He foams with censure: with applause he raves—  
A dupe to rumours, and a tool of knaves;  
He'll want no type his weakness to proclaim,  
While such a thing as *fool's-cap* has a name.

The hasty gentleman, whose blood runs high  
Who picks a quarrel, if you step awry,  
Who can't a jest, or hint, or look endure:  
What's he? What? *Touch-paper* to be sure.

What are your poets, take them as they fall,  
Good, bad, rich, poor, much read, not read at all?  
Them and their works in the same class you'll find:  
They are the mere *waste-paper* of mankind.

Observe the maiden, innocently sweet,  
*Sbe's* fair *white-paper*, an unsullied sheet:  
On which the happy man, whom fate ordains,  
May write his *name*, and take her for his pains.

One instance more, and only one I'll bring—  
'Tis the *great man* who scorns a little thing,  
Whose thoughts, whose deeds, whose maxims are *his own*,  
Form'd on the feelings of his heart alone:  
True genuine *royal-paper* is his breast,—  
Of all the kinds most precious, purest, best.

*Plain Truth; or serious Considerations on the Present State of the City of Philadelphia, and Province of Pennsylvania.*

BY A TRADESMAN OF PHILADELPHIA.\*

It is said, the wise Italians make this proverbial remark on our nation, viz. The English *feel*, but they do not *see*. That is, they are sensible of inconveniences when they are present, but do not take sufficient care to prevent them: their natural courage makes them too little apprehensive of danger, so that they are often surprised by it, unprovided of the proper means of security. When it is too late, they are sensible of their imprudence: after great fires, they provide buckets and engines: after a pestilence, they think of keeping clean their streets and common sewers; and when a town has been sacked by their enemies, they provide for its defence, &c. This kind of *after-wisdom* is indeed so common with us, as to occasion the vulgar, though very significant saying, *When the steed is stolen, you shut the stable door.*

But the more insensible we generally are of public danger and indifferent when warned of it, so much the more freely, openly, and earnestly, ought such as apprehend it to

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\* " 1744, a Spanish privateer, having entered the Bay of Delaware, ascended as high as Newcastle, to the great terror of the citizens of Philadelphia. On this occasion Franklin wrote his first political pamphlet called Plain Truth, to exhort his fellow citizens to the bearing of arms; which laid the foundation of those military associations, which followed, at different times, for the defence of the country."

speak their sentiments : that, if possible, those who seem to sleep may be awakened, to think of some means of avoiding or preventing the mischief, before it be too late.

Believing, therefore, that it is my duty, I shall honestly speak my mind in the following paper.

War at this time rages over a great part of the known world : our newspapers are weekly filled with fresh accounts of the destruction it every where occasions. Pennsylvania, indeed, situate in the centre of the colonies, has hitherto enjoyed profound repose ; and though our nation is engaged in a bloody war with two great and powerful kingdoms, yet, defended in a great degree from the French, on the one hand, by the northern provinces, and from the Spaniards, on the other, by the southern, at no small expense, to each, our people have, till lately, slept securely in their habitations.

There is no British colony excepting this but has made some kind of provision for its defence ; many of them have therefore never been attempted by an enemy ; and others, that were attacked, have generally defended themselves with success. The length and difficulty of our bay and river have been thought so effectual a security to us, that hitherto no means have been entered into, that might discourage an attempt upon us, or prevent its succeeding.

But whatever security this might have been while both country and city were poor, and the advantage to be expected scarce worth the hazard of an attempt, it is now doubted, whether we can any longer safely depend upon it. Our wealth, of late years much increased, is one strong temptation, our defenceless state another, to induce an enemy to attack us ; while the acquaintance they have lately gained with our bay and river, by means of the prisoners and flags of truce they have had among us ; by spies which they almost every where maintain, and perhaps from

traitors among ourselves, with the facility of getting pilots to conduct them; and the known absence of ships of war, during the greatest part of the year, from both Virginia and New York, ever since the war began, render the appearance of success to the enemy far more promising, and therefore highly increase our danger.

That our enemies may have spies abroad, and some even in these colonies, will not be made much doubt of, when it is considered, that such has been the practice of all nations in all ages, whenever they were engaged, or intended to engage in war. Of this we have an early example in the book of Judges (too pertinent to our case, and therefore I must beg leave a little to enlarge upon it) where we are told, chap. xviii. v. 2. That *the Children of Dan sent of their family five men from their coasts to spie out the land, and search it, saying, Go, search the land.* These Danites, it seems, were at this time not very orthodox in their religion, and their spies met with a certain idolatrous priest of their own persuasion, v. 3. and they said to him, *Who brought thee hither? What makest thou in this place? And what hast thou here?* [Would to God no such priests were to be found among us.] And they said unto him, v. 5. *Ask counsel of God, that we may know, whether our way which we go shall be prosperous: and the priest said unto them, Go in peace; before the Lord is your way wherein you go.* [Are there no priests among us, think you, that might, in the like case, give an enemy as good encouragement?] It is well known, that we have numbers of the same religion with those, who of late encouraged the French to invade our mother country.] *And they came, verse 7, to Laish, and saw the people that were therein, how they dwelt CARELESS, after the manner of the Zidonians, QUIET and SECURE.* They thought themselves secure, no doubt; and as they never had been disturbed, vainly thought they never should. It

is not unlikely, that some might see the danger they were exposed to by living in that *careless* manner: but that, if these publicly expressed their apprehensions, the rest reproached them as timorous persons, wanting courage or confidence in their gods, who (they might say) had hitherto protected them. But the spies, verse 8, returned, and said to their countrymen, verse 9, *Arise, that we may go up against them: for we have seen the land, and behold it is very good! And are ye still? Be not slothful to go.* Verse 10, *when ye go, ye shall come to a people SECURE;* [that is, a people that apprehend no danger, and therefore have made no provision against it; great encouragement this] *and to a large land, and a place where there is no want of any thing.* What could they desire more? Accordingly we find, in the following verses, that *six hundred men only, appointed with weapons of war,* undertook the conquest of this *large land:* knowing that 600 men, armed and disciplined, would be an over-match perhaps for 60,000, unarmed, undisciplined, and off their guard. And when they went against it, the idolatrous priest, verse 17, *with his graven image and his ephod, and his seraphim and his molten image* [plenty of superstitious trinkets], joined with them, and, no doubt, gave them all the intelligence and assistance in his power; his heart, as the text assures us, *being glad,* perhaps for reasons more than one. And now, what was the fate of poor Laish! The 600 men being arrived, found as the spies had reported, a people *QUIET* and *SECURE,* verse 20, 21, *And they smote them with the edge of the sword, and burnt the city with fire; and there was no DELIVERER,* because it was far from Zidon.—Not so far from Zidon, however, as Pennsylvania is from Britain; and yet we are, if possible more *careless* than the people of Laish! As the scriptures are given for our re-proof, instruction, and warning, may we make a due use of this example, before it be too late!

And is our country, any more than our city, altogether free from danger? Perhaps not. We have, it is true, had a long peace with the Indians: but it is a long peace, indeed, as well as a long lane, that has no ending. The French know the power and importance of the Six Nations, and spare no artifice, pains, or expense, to gain them to their interest. By their priests they have converted many to their religion, and these\* have openly espoused their cause. The rest appear irresolute what part to take; no persuasions, though enforced with costly presents, having yet been able to engage them generally on our side, though we had numerous forces on their borders, ready to second and support them. What then may be expected, now those forces are, by orders from the crown, to be disbanded, when our boasted expedition is laid aside, through want (as it may appear to them) either of strength or courage; when they see that the French and their Indians, boldly, and with impunity, ravage the frontiers of New York, and scalp the inhabitants; when those few Indians, that engaged with us against the French, are left exposed to their resentment: when they consider these things, is there no danger that, through disgust at our usage, joined with fear of the French power, and greater confidence in their promises and protection than in ours, they may be wholly gained over by our enemies, and join in the war against us? If such should be the case, which God forbid, how soon may the mischief spread to our frontier countries? And what may we expect to be the consequence, but desertion of plantations, ruin, bloodshed, and confusion!

Perhaps some in the city, towns, and plantations near the river, may say to themselves, "An Indian war on the

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\* The praying Indians.

frontiers will not affect us; the enemy will never come near our habitations; let those concerned take care of themselves." And others who live in the country, when they are told of the danger the city is in, from attempts by sea, may say, "What is that to us? The enemy will be satisfied with the plunder of the town, and never think it worth his while to visit our plantations: let the town take care of itself." These are not mere suppositions, for I have heard some talk in this strange manner. But are these the sentiments of true Pennsylvanians, of fellow-countrymen, or even of men, that have common sense or goodness? Is not the whole province one body, united by living under the same laws, and enjoying the same privileges? Are not the people of city and country connected as relations, both by blood and marriage, and in friendships equally dear? Are they not likewise united in interest, and mutually useful and necessary to each other? When the feet are wounded, shall the head say, It is not me; I will not trouble myself to contrive relief? Or if the head is in danger, shall the hands say, We are not affected, and therefore will lend no assistance. No. For so would the body be easily destroyed: but when all parts join their endeavours for its security, it is often preserved. And such should be the union between the country and the town; and such their mutual endeavours for the safety of the whole. When New England, a distant colony, involved itself in a grievous debt to reduce Cape Breton, we freely gave four thousand pounds for *their* relief. And at another time, remembering that Great Britain, still more distant, groaned under heavy taxes in supporting the war, we threw in our mite to their assistance, by a free gift of three thousand pounds: and shall country and town join in helping strangers (as those comparatively are) and yet refuse to assist each other?

But whatever different opinions we have of our security

in other respects, our TRADE, all seem to agree, is in danger of being ruined in another year. The great success of our enemies, in two different cruises this last summer in our bay, must give them the greatest encouragement to repeat more frequently their visits, the profit being almost certain, and the risk next to nothing. Will not the first effect of this be, an enhancing of the price of all foreign goods to the tradesman and farmer, who use or consume them? For the rate of insurance will increase, in proportion to the hazard of importing them; and in the same proportion will the price of those goods increase. If the price of the tradesman's work, and the farmer's produce would increase equally with the price of foreign commodities, the damage would not be so great: but the direct contrary must happen. For the same hazard or rate of insurance, that raises the price of what is imported, must be deducted out of and lower the price of what is exported. Without this addition and deduction, as long as the enemy cruise at our capes, and take those vessels that attempt to go out, as well as those that endeavour to come in, none can afford to trade, and business must be soon at a stand. And will not the consequences be a discouragement of many of the vessels that used to come from other places to purchase our produce, and thereby a turning of the trade to ports that can be entered with less danger, and capable of furnishing them with the same commodities, as New York, &c.; a lessening of business to every shop-keeper, together with multitudes of bad debts, the high rate of goods discouraging the buyers, and the low rates of their labour and produce, rendering them unable to pay for what they had bought; loss of employment to the tradesman, and bad pay for what little he does; and lastly, loss of many inhabitants, who will retire to other provinces not subject to the like inconveniences; whence a lowering of the value of lands, lots, and houses.

The enemy, no doubt, have been told that the people of Pennsylvania are Quakers, and against all defence, from a principle of conscience; this, though true of a part, and that a small part only of the inhabitants, is commonly said of the whole: and what may make it look probable to strangers is, that in fact, nothing is done by any part of the people towards their defence. But to refuse defending one's self, or, one's country, is so unusual a thing among mankind, that possibly they may not believe it, till, by experience, they find they can come higher and higher up our river, seize our vessels, land and plunder our plantations and villages, and retire with their booty unmolested. Will not this confirm the report, and give them the greatest encouragement to strike one bold stroke for the city, and for the whole plunder of the river.

It is said by some, that the expense of a vessel to guard our trade, would be very heavy, greater than perhaps all the enemy can be supposed to take from us at sea would amount to, and that it would be cheaper for the government to open an insurance-office, and pay all losses. But is this right reasoning? I think not; for what the enemy takes is clear loss to us, and gain to him; increasing his riches and strength, as much as it diminishes ours, so making the difference double; whereas the money, paid our own tradesmen for building and fitting out a vessel of defence, remains in the country, and circulates among us; what is paid to the officers and seamen, that navigate her, is also spent ashore, and soon gets into other hands; the farmer receives her money for her provisions, and, on the whole, nothing is clearly lost to the country but her wear and tear, or as much as she sells for at the end of the war less than her first cost. This loss, and a trifling one it is, is all the inconvenience; but how many and how great are the conveniences and advantages! and should the enemy, through our supineness and neglect to provide for the de-

fence both of our trade and country, be encouraged to attempt this city, and after plundering us of our goods, either burn it, or put it to ransom, how great would that loss be ! besides ,the confusion, terror, and distress, so many hundreds of families would be involved in !

The thought of this latter circumstance so much affects me, that I cannot forbear expatiating somewhat more upon it. You have, my dear countrymen and fellow-citizens, riches to tempt a considerable force to unite and attack you, but are under no ties or engagements to unite for your defence. Hence, on the first alarm, *terror* will spread over all : and as no man can with certainty depend that another will stand by him, beyond doubt very many will seek safety by a speedy flight. Those who are reputed rich, will flee, through fear of torture, to make them produce more than they are able. The man that has a wife and children, will find them hanging on his neck, beseeching him with tears to quit the city, and save his life, to guide and protect them in that time of general desolation and ruin. All will run into confusion, amidst cries and lamentations, and the hurry and disorder of departers, carrying away their effects. The few that remain will be unable to resist. *Sacking* the city will be the first, and *burning* it, in all probability, the last act of the enemy. This, I believe, will be the case, if you have timely notice. But what must be your condition, if suddenly surprised, without previous alarm, perhaps in the night ! Confined to your houses, you will have nothing to trust to but the enemy's mercy. Your best fortune will be, to fall under the power of commanders of king's ships, able to controul the mariners: and not into the hands of *licentious pirates*. Who can, without the utmost horror, conceive the miseries of the latter ! when your persons, fortunes, wives, and daughters, shall be subject to the wanton and unbridled rage, rapine, and lust, of negroes, mulattoes, and others, the vilest and most

abandoned of mankind.\* A dreadful scene! which some may represent as exaggerated. I think it my duty to warn you: judge for yourselves.

It is true, with very little notice, the rich may shift for themselves. The means of speedy flight are ready in their hands; and with some previous care to lodge money and effects in distant and secure places, though they should lose much, yet enough may be left them, and to spare. But most unhappily circumstanced indeed are we, the middling people, the tradesmen, shopkeepers, and farmers of this province and city! We cannot all fly with our families; and if we could, how shall we subsist? No; we and they, and what little we have gained by hard labour and industry must bear the brunt: the weight of contributions, extorted by the enemy (as it is of taxes among ourselves) must be surely borne by us. Nor can it be avoided, as we stand at present: for though we are numerous, we are quite defenceless, having neither forts, arms, union, nor discipline. And though it were true, that our trade might be protected at no great expense, and our country and our city easily defended, if proper measures were but taken; yet, who shall take these measures? Who shall

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\* By accounts, the ragged crew of the Spanish privateer that plundered Mr. Liston's and another plantation, a little below Newcastle was composed of such as these. The *honour* and *humanity* of their officers may be judged of, by the treatment they gave the poor Captain Brown, whom they took with Martin's ship in returning from their cruise. Because he bravely defended himself and vessel longer than they expected, for which every generous enemy would have esteemed him, did they, after he had struck and submitted, barbarously *stab* and *murder* him, though on his knees begging quarter.

pay that expense? On whom may we fix our eyes with the least expectation, that they will do any thing for our security? Should we address that wealthy and powerful body of people, who have ever since the war governed our elections, and filled almost every seat in our assembly; should we intreat them to consider, if not as friends, at least as legislators, that *protection* is as truly due from the government to the people, as *obedience* from the people to the government; and that if, on account of their religious scruples, they themselves could do no act for our defence, yet they might retire, relinquish their power for a season, quit the helm to freer hands during the present tempest, to hands, chosen by their own interests too, whose prudence and moderation, with regard to them, they might safely confide in; secure, from their own native strength, of resuming again their present station, whenever it shall please them, should we remind them, that the public money, raised *from all* belongs *to all*; that since they have for their own ease, and to secure themselves in the quiet enjoyment of their religious principles (and may they long enjoy them) expended such large sums to oppose petitions, and engage favourable representations of their conduct, if they themselves could by no means be free to appropriate any part of the public money for our defence; yet it would be no more than justice, to spare us a reasonable sum for that purpose, which they might easily give to the king's use as heretofore, leaving all the appropriation to others, who would faithfully apply it as we desired: should we tell them, that though the treasury be at present empty, it may soon be filled by the outstanding public debts collected; or at least credit might be had for such a sum, on a single vote of the assembly: that though they themselves may be resigned and easy under this naked, defenceless state of the country, it is far otherwise with a very great part ~~of~~ the people; with us, who can have no

confidence that God will protect those that neglect the use of rational means for their security ; nor have any reason to hope, that our losses, if we should suffer any, may be made up by collections in our favour at home. Should we conjure them by all the ties of neighbourhood, friendship, justice, and humanity, to consider these things ; and what distraction, misery, and confusion, what desolation and distress may possibly be the effect of their *unreasonable* predominancy and perseverance : yet all would be in vain ; for they have already been, by great numbers of the people, petitioned in vain. Our late governor did for years solicit, request, and even threaten them in vain. The council have since twice remonstrated to them in vain. Their religious prepossessions are unchangeable, their obstinacy invincible. Is there then the least hope remaining, that from that quarter any thing should arise for our security ?

And is our prospect better, if we turn our eyes to the strength of the opposite party, those great and rich men, merchants and others, who are ever railing at Quakers for doing what their principles seem to require, and what in charity we ought to believe they think their duty, but take no one step themselves for the public safety. They have so much wealth and influence, if they would use it, that they might easily, by their endeavours and example, raise a military spirit among us, make us fond, studious of, and expert in, martial discipline, and effect every thing that is necessary, under God, for our protection. But *envy* seems to have taken possession of their hearts, and to have eaten out and destroyed every generous, noble, public-spirited sentiment. *Rage*, at the disappointment of their little schemes for power, gnaws their souls, and fills them with such cordial hatred to their opponents, that every proposal, by the execution of which *those* may receive benefit as well as themselves, is rejected with indignation. " What,"

say they, " Shall we lay out our money to protect the trade of Quakers? Shall we fight to defend Quakers? No; let the trade perish, and the city burn; let what will happen, we shall never lift a finger to prevent it. Yet the Quakers have *conscience* to plead for their resolution not to fight, which these gentlemen have not. Conscience with you, gentlemen, is on the other side of the question: conscience enjoins it as a *duty* on you (and indeed I think it such on every man) to defend your country, your friends, your aged parents, your wives, and helpless children: and yet you resolve not to perform this duty, but act contrary to your own consciences, because the Quakers act according to theirs. Till of late, I could scarce believe the story of him, who refused to pump in a sinking ship, because one on board, whom he hated, would be saved by it as well as himself. But such, it seems, is the unhappiness of human nature, that our passions, when violent, often are too hard for the united force of reason, duty, and religion.

Thus unfortunately are we circumstanced at this time, my dear countrymen and fellow-citizens; we, I mean the middling people, the farmers, shop-keepers, and tradesmen of this city and country. Through the dissensions of our leaders, through mistaken principles of religion, joined with a love of worldly power, on the one hand, through pride, envy, and implacable resentment on the other; our lives, our families, and little fortunes, dear to us as any great man's can be to him, are to remain continually exposed to destruction, from an enterprising, cruel, now well-informed, and by success encouraged, enemy. It seems, as if heaven, justly displeased at our growing wickedness, and determined to punish\* this once-favoured

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\* When God determined to punish his chosen people, the inhabitants of Jerusalem, who, though breakers of his other

and, had suffered our chiefs to engage in these foolish and mischievous contentions, for *little posts* and *paltry distinctions*, that our hands might be bound up, our understandings darkened and misled, and every means of our security neglected. It seems as if our greatest men, our *cives nobilissimi*\* of both parties, had sworn the ruin of the country, and invited the French, our most inveterate enemy, to destroy it. Where, then, shall we seek for succour and protection? The government we are immediately under denies it to us; and if the enemy comes, we are *far from Zidon, and there is no deliverer near*. Our case is dangerously bad; but perhaps there is yet a remedy, if we have but the prudence and the spirit to apply it.

If this new flourishing city, and greatly improving colony, is destroyed and ruined, it will not be for want of numbers of inhabitants able to bear arms in its defence. It is computed, that we have at least (exclusive of the Quakers) sixty thousand fighting men, acquainted with fire-arms, many of them hunters and marksmen, hardy and bold. All we want is order, discipline, and a few cannon. At present we are like the separate filaments of flax before the thread is formed, without strength, because without connection: but UNION would make us strong, and even formidable. Though the *great* should neither help nor

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laws, were scrupulous observers of that *one*, which required keeping holy the Sabbath-day; he suffered even the strict observation of that command to be their ruin: for Pompey, observing that they then obstinately refused to fight, made a general assault on that day, took the town, and butchered them with as little mercy as he found resistance. *Josephus.*

\* *Conjuravere cives nobilissimi patriam incendere; Gallorum Gentem, infestissimam nomini Romano, ad bellum arcessunt. Cat. ss Salust.*

join us, though they should even oppose our uniting, from some mean views of their own, yet, if we resolve upon it, and it please God to inspire us with the necessary prudence and vigour, it *may* be effected. Great numbers of our people are of British race, and though the fierce fighting animals of those happy islands are said to abate their native fire and intrepidity, when removed to a foreign clime, yet with the people it is not so; our neighbours of New England afford the world a convincing proof, that Britons, though a hundred years transplanted, and to the remotest part of the earth, may yet retain, even to the third and fourth descent, that zeal for the public good, that military prowess, and that undaunted spirit, which has in every age distinguished their nation. What numbers have we likewise of *those brave people*, whose fathers in the last age made so glorious a stand for our religion and liberties, when invaded by a powerful French army, joined by Irish Catholics, under a bigotted Popish king! Let the memorable siege of Londonderry, and the signal actions of the Inniskillengers, by which the heart of that prince's schemes was broken, be perpetual testimonies of the courage and conduct of those noble warriors! Nor are there wanting amongst us, thousands of *that warlike nation*, whose sons have ever since the time of Cæsar maintained the character he gave their fathers, of joining the most *obstinate courage* to all the other military virtues: I mean the brave and steady Germans. Numbers of whom have actually borne arms in the service of their respective princes; and if they fought well for their tyrants and oppressors, would they refuse to unite with us in defence of their newly-acquired and most precious liberty and property? Were this union formed, were we once united, thoroughly armed and disciplined, was every thing in our power done for our security, as far as human foresight could provide, we might then, with more pro-

priety, humbly ask the assistance of Heaven, and a blessing on our lawful endeavours. The very fame of our strength and readiness would be a means of discouraging our enemies ; for it is a wise and true saying, that *one sword often keeps another in the scabbard.* The way to secure peace is to be prepared for war. They that are on their guard, and appear ready to receive their adversaries, are in much less danger of being attacked, than the supine, secure, and negligent. We have yet a winter before us, which may afford a good and almost sufficient opportunity for this, if we seize and improve it with a becoming vigour. And if the hints contained in this paper are so happy as to meet with a suitable disposition of mind in his countrymen and fellow-citizens, the writer of it will, in a few days, lay before them a form of an **ASSOCIATION** for the purposes herein mentioned, together with a practicable scheme for raising the money necessary for the defence of our trade, city, and country, without laying a burden on any man.

*May the God of wisdom, strength, and power, the Lord of the armies of Israel, inspire us with prudence in this time of danger, take away from us all the seeds of contention and division, and unite the hearts and counsels of all of us, of whatever sect or nation, in one bond of peace, brotherly love, and generous public spirit ! May he give us strength and resolution to amend our lives, and remove from among us every thing that is displeasing to him ; afford us his most gracious protection, confound the designs of our enemies, and give peace in all our borders, is the sincere prayer of*

1744.

A TRADESMAN of Philadelphia.

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*The Examination of Dr. Benjamin Franklin before the English House of Commons, in February, 1766, relative to the repeal of the American Stamp Act.*

Q. What is your name, and place of abode?

A. Franklin, of Philadelphia.

Q. Do the Americans pay any considerable taxes among themselves?

A. Certainly many, and very heavy taxes.

Q. What are the present taxes in Pennsylvania, laid by the laws of the colony?

A. There are taxes on all estates real and personal; a poll tax; a tax on all offices, professions, trades, and businesses, according to their profits; an excise on all wine, rum, and other spirits; and a duty of ten pounds per head on all negroes imported, with some other duties.

Q. For what purposes are those taxes laid?

A. For the support of the civil and military establishments of the country, and to discharge the heavy debt contracted in the last war.

Q. How long are those taxes to continue?

A. Those for discharging the debt are to continue till 1772, and longer, if the debt should not be then all discharged. The others must always continue.

Q. Was it not expected that the debt would have been sooner discharged?

A. It was, when the peace was made with France and Spain. But a fresh war breaking out with the Indians, a fresh load of debt was incurred; and the taxes, of course, continued longer by a new law.

Q. Are not all the people very able to pay those taxes?

A. No. The frontier countries, all along the continent, having been frequently ravaged by the enemy and greatly

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impoverished, are able to pay very little tax. And therefore, in consideration of their distresses, our late tax laws do expressly favour those counties, excusing the sufferers; and I suppose the same is done in other governments.

Q. Are not you concerned in the management of the Post-office in America?

A. Yes, I am deputy post-master general of North America.

Q. Don't you think the distribution of stamps by post to all the inhabitants very practicable, if there was no opposition?

A. The posts only go along the sea-coasts; they do not, except in a few instances, go back into the country; and if they did, sending for stamps by post would occasion an expense of postage, amounting, in many cases, to much more than that of the stamps themselves.

Q. Are you acquainted with Newfoundland?

A. I never was there.

Q. Do ye know whether there are any post roads on that island?

A. I have heard that there are no roads at all, but that the communication between one settlement and another is by sea only.

Q. Can you disperse the stamps by post in Canada?

A. There is only a post between Montreal and Quebec. The inhabitants live so scattered and remote from each other in that vast country, that posts cannot be supported among them, and therefore they cannot get stamps per post. The English colonies too along the frontiers are very thinly settled.

Q. From the thinness of the back settlements, would not the stamp act be extremely inconvenient to the inhabitants, if executed?

A. To be sure it would; as many of the inhabitants could not get stamps when they had occasion for them;

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without taking long journeys, and spending perhaps three or four pounds, that the crown might sixpence.

Q. Are not the colonies, from their circumstances, very able to pay the stamp duty ?

A. In my opinion, there is not gold and silver enough in the colonies to pay the stamp duty for one year.\*

Q. Don't you know that the money arising from the stamps was all to be laid out in America ?

A. I know it is appropriated by the act to the American service; but it will be spent in the conquered colonies, where the soldiers are; not in the colonies that pay it.

Q. Is there not a balance of trade due from the colonies where the troops are posted, that will bring back the money to the old colonies ?

A. I think not. I believe very little would come back. I know of no trade likely to bring it back. I think it would come from the colonies where it was spent, directly to England; for I have always observed, that in every colony the more plenty the means of remittance to England, the more goods are sent for, and the more trade with England carried on.

Q. What number of white inhabitants do you think there are in Pennsylvania ?

A. I suppose there may be about one hundred and sixty thousand.

Q. What number of them are Quakers ?

A. Perhaps a third.

Q. What number of them are German ?

A. Perhaps another third; but I cannot speak with certainty.

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\* It was estimated in the House of Commons, that the American Stamp Act would produce 100,000l. sterling per annum to the revenue. *Editor*

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Q. Have any number of the Germans seen service, as soldiers, in Europe?

A. Yes, many of them, both in Europe and America.

Q. Are they as much dissatisfied with the stamp duty as the English?

A. Yes, and more; and with reason, as their stamps are, in many cases, to be double.

Q. How many white men do you suppose there are in North America?

A. About three hundred thousand, from sixteen to sixty years of age.

Q. What may be the amount of one year's imports into Pennsylvania from Britain?

A. I have been informed that our merchants compute the imports from Britain to be above 500,000l.

Q. What may be the amount of the produce of your province exported to Britain.

A. It must be small, as we produce little that is wanted in Britain. I suppose it cannot exceed 40,000l.

Q. How then do you pay the balance?

A. The balance is paid by our produce carried to the West Indies (and sold in our own islands, or to the French, Spaniards, Danes, and Dutch)—by the same [produce] carried to other colonies in North America (as to New England, Nova Scotia, Newfoundland, Carolina, and Georgia)—by the same, carried to different parts of Europe (as Spain, Portugal, and Italy). In all which places we receive either money, bills of exchange, or commodities that suit for remittance to Britain; which, together with all the profits on the industry of our merchants and mariners, arising in those circuitous voyages, and the freights made by their ships, centre finally in Britain to discharge the balance, and pay for British manufactures continually used in the province, or sold to foreigners by our traders.

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Q. Have you heard of any difficulties lately laid on the Spanish trade?

A. Yes, I have heard that it has been greatly obstructed by some new regulations, and by the English men of war and cutters stationed all along the coast in America.

Q. Do you think it right that America should be protected by this country, and pay no part of the expense?

A. That is not the case. The colonies raised, clothed, and paid, during the last war, near twenty-five thousand men, and spent many millions.

Q. Were you not reimbursed by parliament?

A. We were only reimbursed what, in your opinion, we had advanced beyond our proportion, or beyond what might reasonably be expected from us; and it was a very small part of what we spent. Pennsylvania, in particular, disbursed about 500,000l. and the reimbursements, in the whole, did not exceed 60,000l.

Q. You have said, that you pay heavy taxes in Pennsylvania, what do they amount to in the pound?

A. The tax, on all estates, real and personal, is eighteen pence in the pound, fully rated; and the tax on the profits of trades and professions, with other taxes, do, I suppose, make full half-a-crown in the pound.

Q. Do you know any thing of the *rate of exchange* in Pennsylvania, and whether it has fallen lately?

A. It is commonly from one hundred and seventy to one hundred and seventy-five. I have heard that it has fallen lately from one hundred and seventy-five to one hundred sixty-two and a half; owing, I suppose, to their lessening their orders for goods; and when their debts to this country are paid, I think the exchange will probably be at par.

Q. Do not you think the people of America would submit to pay the stamp duty, if it was moderated?

A. No, never, unless compelled by force of arms.

Q. Are not the taxes in Pennsylvania laid on unequally,

## EXAMINATION OF DR. FRANKLIN. 375

in order to burden the English trade: particularly the tax on professions and business?

A. It is not more burdensome, in proportion than the tax on lands. It is intended, and supposed to take an equal proportion of profits.

Q. How is the assembly composed? Of what kinds of people are the members; landholders or traders?

A. It is composed of landholders, merchants, and artificers.

Q. Are not the majority landholders?

A. I believe they are.

Q. Do not they, as much as possible, shift the tax off from the land, to ease that, and lay the burden heavier on trade?

A. I have never understood it so. I never heard such a thing suggested. And indeed an attempt of that kind could answer no purpose. The merchant or trader is always skilled in figures, and ready with his pen and ink. If unequal burdens are laid on his trade, he puts an additional price on his goods; and the consumers, who are chiefly landholders, finally pay the greatest part, if not the whole.

Q. What was the temper of America towards Great Britain before the year 1768.

A. The best in the world. They submitted willingly to the government of the crown, and paid, in their courts, obedience to acts of parliament. Numerous as the people are in the several old provinces, they cost you nothing in forts, citadels, garrisons, or armies, to keep them in subjection. They were governed by this country at the expense only of a little pen, ink, and paper: they were led by a thread. They had not only a respect, but an affection for Great Britain; for its laws, its customs, and manners, and even a fondness for its fashions, that greatly increased the commerce. Natives of Britain were always treated

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with particular regard : to be an *Old England-man* was, of itself, a character of some respect, and gave a kind of rank among us.

Q. What is their temper now ?

A. O, very much altered.

Q. Did you ever hear the authority of parliament to make laws for America questioned till lately ?

A. The authority of parliament was allowed to be valid in all laws, except such as should lay internal taxes. It was never disputed in laying duties to regulate commerce.

Q. In what proportion hath population increased in America ?

A. I think the inhabitants of all the provinces together, taken at a medium, double in about twenty-five years. But their demand for British manufactures increases much faster : as the consumption is not merely in proportion to their numbers, but grows with the growing abilities of the same numbers to pay for them. In 1723, the whole importation from Britain to Pennsylvania was but about 15,000L sterling ; it is now near half a million !

Q. In what light did the people of America use to consider the parliament of Great Britain ?

A. They considered the parliament as the great bulwark and security of their liberties and privileges, and always spoke of it with the utmost respect and veneration. Arbitrary ministers they thought, might possibly, at times, attempt to oppress them ; but they relied on it, that the parliament on application would always give redress. They remembered, with gratitude, a strong instance of this, when a bill was brought into parliament, with a clause, to make royal instructions laws in the colonies, which the House of Commons would not pass, and it was thrown out.

Q. And have they not still the same respect for parliament ?

A. No, it is greatly lessened .

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Q. To what cause is that owing?

A. To a concurrence of causes; the restraint lately laid on their trade, by which the bringing of foreign gold and silver into [the] colonies was prevented; the prohibition of making paper-money among themselves, and then demanding a new and heavy tax by stamps, taking away, at the same time, trials by juries, and refusing to receive and hear their humble petitions.

Q. Don't you think they would submit to the stamp act, if it was modified, the obnoxious parts taken out, and the duty reduced to some particulars, of small moment?

A. No, they will never submit to it.

Q. What do you think is the reason that the people in America increase faster than in England?

A. Because they marry younger, and more generally.

Q. Why so?

A. Because any young couple, that are industrious, may easily obtain land of their own, on which they can raise a family.

Q. Are not the lower rank of people more at their ease in America than in England?

A. They may be so, if they are sober and diligent; as they are better paid for their labour.

Q. What is your opinion of a future tax, imposed on the same principle with that of the stamp act? how would the Americans receive it?

A. Just as they do this. They would not pay it.

Q. Have not you heard of the resolution of this house and of the house of lords; asserting the right of parliament relating to America, including a power to tax the people there?

A. Yes, I have heard of such resolutions.

Q. What will be the opinion of the Americans on those resolutions?

A. They will think them unconstitutional and unjust.

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Q. Was it an opinion in America before 1768, that the parliament had no right to lay taxes and duties there?

A. I never heard any objection to the right of laying duties to regulate commerce, but a right to lay internal taxes was never supposed to be in parliament, as we are not represented there.

Q. On what do you found your opinion, that the people in America made any such distinction?

A. I know that whenever the subject has occurred in conversation where I have been present, it has appeared to be the opinion of every one, that we could not be taxed in a parliament where we were not represented. But the payment of duties laid by act of parliament as regulations of commerce, was never disputed.

Q. But can you name any act of assembly, or public act of any of your governments, that made such distinction?

A. I do not know that there was any. I think there was never an occasion to make any such act, till now that you have attempted to tax us: that has occasioned resolutions of assembly, declaring the distinction, in which I think every assembly, on the continent, and every member in every assembly, have been unanimous.

A. What then could occasion conversations on that subject before that time?

Q. There was in 1754 a proposition made. (I think it came from thence) that in case of a war, which was then apprehended, the governors of the colonies should meet, and order the levying of troops, building of forts, and taking of every other necessary measure for the general defence; and should draw on the treasury here for the sums expended; which were afterwards to be raised in the colonies by a general tax, to be laid on them by *act of parliament*. This occasioned a good deal of conversation on the subject; and the general opinion was, that the parliament neither would nor could lay any tax on us, till we were duly

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represented in parliament; because it was not just, nor agreeable to the nature of an English constitution.

Q. Don't you know there was a time in New York, when it was under consideration to make an application to parliament to lay taxes on that colony, upon a deficiency arising from the assembly's refusing or neglecting to raise the necessary supplies for the support of the civil government?

A. I never heard of it.

Q. There was such an application under consideration in New York:—and do you apprehend they could suppose the right of parliament to lay a tax in America was only local, and confined to the case of a deficiency in a particular colony, by a refusal of its assembly to raise the necessary supplies?

A. They could not suppose such a case, as that the assembly would not raise the necessary supplies to support its own government. An assembly that would refuse it must want common sense; which cannot be supposed. I think there was never any such case at New York, and that it must be a misrepresentation, or the fact must be misunderstood. I know there have been some attempts; by ministerial instructions from hence, to oblige the assemblies to settle permanent salaries or governors, which they wisely refused to do; but I believe no assembly of New York, or any other colony, ever refused duly to support government by proper allowances, from time to time, to public officers.

Q. But in case a governor, acting by instruction, should call on an assembly to raise the necessary supplies, and the assembly should refuse to do it, do you think it would then be for the good of the people of the colony, as well as necessary to government, that the parliament should tax them?

A. I do not think it would be necessary. If an assembly could possibly be so absurd, as to refuse raising the sup-

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plies requisite for the maintenance of government among them, they could not long remain in such a situation; the disorders and confusion occasioned by it must soon bring them to reason.

Q. If it should not, ought not the right to be in Great Britain of applying a remedy?

A. A right, only to be used in such a case, I should have no objection to: supposing it to be used merely for the good of the people of the colony.

Q. But who is to judge of that, Britain or the colony?

A. Those that feel can best judge.

Q. You say the colonies have always submitted to external taxes, and object to the right of parliament only in laying internal taxes: now can you show, that there is any kind of *difference between the two taxes* to the colony on which they may be laid?

A. I think the difference is very great. An *external* tax is a duty laid on commodities imported; that duty is added to the first cost and other charges on the commodity, and, when it is offered to sale, makes a part of the price. If the people do not like it at that price, they refuse it; they are not obliged to pay it. But an *internal* tax is forced from the people without their consent, if not laid by their own representatives. The stamp act says, we shall have no commerce, make no exchange of property with each other, neither purchase, nor grant, nor recover debts; we shall neither marry nor make our wills, unless we pay such and such sums; and thus it is intended to extort our money from us, or ruin us by the consequences of refusing to pay it.

Q. But supposing the external tax or duty to be laid on the necessaries of life imported into your colony, will not that be the same thing in its effects as an internal tax?

A. I do not know single article imported into the

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*northern colonies*, but what they can either do without, or make themselves.

Q. Don't you think cloth from England absolutely necessary to them?

A. No, by no means absolutely necessary ; with industry and good management, they may very well supply themselves with all they want.

Q. Will it not take a long time to establish that manufacture among them ; and must they not in the mean while suffer greatly ?

A. I think not. They have made a surprising progress already. And I am of opinion, that before their old clothes are worn out, they will have new ones of their own making.

Q. Can they possibly find wool enough in North America ?

A. They have taken steps to increase the wool. They entered into general combinations to eat no more lamb : and very few lambs were killed last year. This course, persisted in, will soon make a prodigious difference in the quantity of wool. And the establishing of great manufactories, like those in the clothing towns here, is not necessary, as it is where the business is to be carried on for the purposes of trade. The people will all spin, and work for themselves, in their own houses.

Q. Can there be wool and manufacture enough in one or two years ?

A. In three years I think there may.

Q. Does not the severity of the winter, in the northern colonies, occasion the wool to be of bad quality ?

A. No, the wool is very fine and good.

Q. In the more southern colonies, as, in Virginia, don't you know that the wool is coarse, and only a kind of hair ?

A. I don't know it. I never heard it yet. Yet I have been sometimes in Virginia. I cannot say I ever took particular notice of the wool there, but I believe it is good,

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though I cannot speak positively of it: but Virginia, and the colonies south of it, have less occasion for wool; their winters are short, and not very severe; and they can very well clothe themselves with linen and cotton of their own raising for the rest of the year.

Q. Are not the people in the more northern colonies obliged to fodder their sheep all the winter?

A. In some of the most northern colonies they may be obliged to do it some part of the winter?

Q. Considering the resolutions of parliament, as to the right; do you think if the stamp act is repealed, that the North Americans will be satisfied?

A. I believe they will.

Q. Why do you think so?

A. I think the resolutions of right will give them very little concern, if they are never attempted to be carried into practice. The colonies will probably consider themselves in the same situation, in that respect, with Ireland; they know you claim the same right with regard to Ireland, but you never exercise it. And they may believe you never will exercise it in the colonies, any more than in Ireland, unless on some very extraordinary occasion.

Q. But who are to be judges of that extraordinary occasion? Is not the parliament?

A. Though the parliament may judge of the occasion, the people will think it can never exercise such right, till representatives from the colonies are admitted into parliament; and that, whenever the occasion arises, representatives will be ordered.

Q. Did you never hear that Maryland, during the last war, had refused to furnish a quota towards the common defence?

A. Maryland has been much misrepresented in that matter. Maryland, to my knowledge, never refused to contribute, or grant aids to the crown. The assemblies, every

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year during the war, voted considerable sums, and formed bills to raise them. The bills were, according to the constitution of that province, sent up to the council, or upper house, for concurrence, that they might be presented to the governor, in order to be enacted into laws. Unhappy disputes between the two houses—arising from the defects of that constitution principally—rendered all the bills but one or two abortive. The proprietary's council rejected them. It is true, Maryland did not contribute its proportion; but it was, in my opinion, the fault of government, not of the people.

*Q.* Was it not talked of in the other provinces as a proper measure to apply to parliament to compel them?

*A.* I have heard such discourse; but as it was well known that the people were not to blame, no such application was ever made; nor any steps taken towards it.

*Q.* Was it not proposed at a public meeting?

*A.* Not that I know of.

*Q.* Do you remember the abolishing of the paper-currency in New England, by act of assembly?

*A.* I do remember its being abolished in the Massachusetts's bay.

*Q.* Was not Lieutenant-Governor Hutchinson principally concerned in that transaction?

*A.* I have heard so.

*Q.* Was it not at that time a very unpopular law?

*A.* I believe it might, though I can say little about it, as I lived at a distance from that province.

*Q.* Was not the scarcity of gold and silver an argument used against abolishing the paper?

*A.* I suppose it was.

*Q.* What is the present opinion there of that law? Is it as unpopular as it was at first?

*A.* I think it is not.

*Q.* Have not instructions from hence been some-

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times sent over to governors, highly oppressive and unpolitical?

A. Yes.

Q. Have not some governors dispensed with them for that reason?

A. Yes; I have heard so.

Q. Did the Americans ever dispute the controlling power of parliament to regulate the commerce?

A. No.

Q. Can any thing less than a military force carry the stamp act into execution?

A. I do not see how a military force can be applied to that purpose.

Q. Why may it not?

A. Suppose a military force sent into America, they will find nobody in arms; what are they then to do? They cannot force a man to take stamps who chooses to do without them. They will not find a rebellion; they may indeed make one.

Q. If the act is not repealed, what do you think will be the consequences?

A. A total loss of the respect and affection the people of America bear to this country, and of all the commerce that depends on that respect and affection.

Q. How can the commerce be affected?

A. You will find, that if the act is not repealed, they will take very little of your manufactures in a short time.

Q. Is it in their power to do without them?

A. I think they may very well do without them.

Q. Is it their interest not to take them?

A. The goods they take from Britain are either necessities, mere conveniences, or superfluities. The first, as cloth, &c. with a little industry they can make at home; the second they can do without, till they are able to provide them among themselves; and the last, which are

## EXAMINATION OF DR. FRANKLIN. 385

much the greatest part, they will strike off immediately. They are mere articles of fashion, purchased and consumed because the fashion in a respected country; but will now be detested and rejected. The people have already struck off, by general agreement, the use of all goods fashionable in mournings, and many thousand pounds worth are sent back as unsaleable.

Q. Is it their interest to make cloth at home?

A. I think they may at present get it cheaper from Britain, I mean of the same fineness and neatness of workmanship; but when one considers other circumstances, the restraints on their trade, and the difficulty of making remittances, it is their interest to make every thing.

Q. Suppose an act of internal regulations connected with a tax, how would they receive it?

A. I think it would be objected to.

Q. Then no regulation with a tax would be submitted to?

A. Their opinion is, that when aids to the crown are wanted, they are to be asked of the several assemblies, according to the old established usage; who will, as they always have done, grant them freely. And that their money ought not to be given away, without their consent, by persons at a distance, unacquainted with their circumstances and abilities. The granting aids to the crown is the only means they have of recommending themselves to their sovereign; and they think it extremely hard and unjust, that a body of men, in which they have no representatives, should make a merit to itself of giving and granting what is not its own, but theirs; deprive them of a right they esteem of the utmost value and importance, as it is the security of all their other rights.

Q. But is not the post-office, which they have long received, a tax as well as a regulation?

A. No; the money paid for their postage of a letter is

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not of the nature of a tax: it is merely a *quantum meruit* for a service done: no person is compellable to pay the money, if he does not choose to receive the service. A man may still, as before the act, send his letter by a servant, a special messenger, or a friend, if he thinks it cheaper and safer.

Q. But do they not consider the regulations of the post-office, by the act of last year, as a tax?

A. By the regulations of last year the rate of postage was generally abated near thirty per cent. through all America; they certainly cannot consider such abatement as a tax.

Q. If an excise was laid by parliament, which they might likewise avoid paying, by not consuming the articles excised, would they then not object to it?

A. They would certainly object to it, as an excise is unconnected with any service done, and is merely an aid, which they think ought to be asked of them, and granted by them if they are to pay it; and can be granted for them by no others whatsoever, whom they have not empowered for that purpose.

Q. You say, they do not object to the right of parliament, in laying duties on goods to be paid on their importation: now, is there any kind of difference between a duty on the *importation* of goods, and an excise on their *consumption*?

A. Yes; a very material one: an excise, for the reasons I have just mentioned, they think you can have no right to lay within their country. But *the sea* is yours; you maintain, by your fleets, the safety of navigation in it, and keep it clear of pirates; you may have therefore a natural and equitable right to some *toll* or duty on merchandize carried through that part of your dominions, towards defraying the expense you are at in ships to maintain the safety of that carriage.

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Q. Does this reasoning hold in the case of a duty laid on the produce of their lands *exported*? And would they not then object to such a duty?

A. If it tended to make the produce so much dearer abroad, as to lessen the demand for it, to be sure they would object to such a duty; not to your right of laying it, but they would complain of it as a burden, and petition you to lighten it.

Q. Is not the duty paid on the tobacco exported, a duty of that kind?

A. That, I think, is only on tobacco carried coastwise, from one colony to another, and appropriated as a fund for supporting the college at Williamsburgh, in Virginia.

Q. Have not the assemblies in the West Indies the same natural rights with those in North America?

A. Undoubtedly.

Q. And is there not a tax laid there on their sugars exported?

A. I am not much acquainted with the West Indies, but the duty of four and a half per cent. on sugars exported was, I believe, granted by their own assemblies.

Q. How much is the poll-tax in your province laid on unmarried men?

A. It is, I think, fifteen shillings, to be paid by every single freeman, upwards of twenty-one years old.

Q. What is the annual amount of *all* the taxes in Pennsylvania?

A. I suppose about 20, 000*l.* sterling.

Q. Supposing the stamp act continued and enforced, do you imagine that ill humour will induce the Americans to give as much for worse manufactures of their own, and use them, preferably to better of ours?

A. Yes, I think so. People will pay as freely to gratify one passion as another, their resentment as their pride.

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**Q.** Would the people at Boston discontinue their trade?

**A.** The merchants are a very small number compared with the body of the people, and must discontinue their trade, if nobody will buy their goods.

**Q.** What are the body of the people in the colonies?

**A.** They are farmers, husbandmen, or planters.

**Q.** Would they suffer the produce of their lands to rot?

**A.** No; but they would not raise so much. They would manufacture more, and plough less.

**Q.** Would they live without the administration of justice in civil matters, and suffer all the inconveniences of such a situation for any considerable time, rather than take the stamps, supposing the stamps were protected by a sufficient force, where every one might have them?

**A.** I think the supposition impracticable, that the stamps should be so protected as that every one might have them. The act requires sub-distributors to be appointed in every county town, district, and village, and they would be necessary. But the *principal* distributors, who were to have had a considerable profit on the whole, have not thought it worth while to continue in the office: and I think it impossible to find sub-distributors fit to be trusted, who, for the trifling profit that must come to their share, would incur the odium, and run the hazard that would attend it; and if they could be found, I think it impracticable to protect the stamps in so many distant and remote places.

**Q.** But in places where they could be protected, would not the people use them, rather than remain in such a situation, unable to obtain any right, or recover, by law, any debt?

**A.** It is hard to say what they would do. I can only judge what other people will think, and how they will act, by what I feel within myself. I have a great many debts

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due to me in America, and I had rather they should remain unrecoverable by any law, than submit to the stamp act. The will be debts of honour. It is my opinion the people will either continue in that situation, or find some way to extricate themselves, perhaps by generally agreeing to proceed in the courts without stamps.

Q. What do you think a sufficient military force to protect the distribution of the stamps in every part of America?

A. A very great force, I can't say what, if the disposition of America is for a general resistance.

Q. What is the number of men in America able to bear arms, or of disciplined militia?

A. There are, I suppose, at least——

[*Question objected to. He withdrew. Called in again.*]

Q. Is the American stamp act an equal tax on the country?

A. I think not.

Q. Why so?

A. The greatest part of the money must arise from law-suits for the recovery of debts, and be paid by the lower sort of people, who were too poor easily to pay their debts. It is therefore a heavy tax on the poor, and a tax upon them for being poor

Q. But will not this increase of expense be a means of lessening the number of law-suits?

A. I think not; for as the costs all fall upon the debtor, and are to be paid by him, they would be no discouragement to the creditor to bring his action.

Q. Would it not have the effect of excessive usury?

A. Yes, as an oppression of the debtor.

Q. How many ships are there laden annually in North America with *flax-seed* for Ireland?

A. I cannot speak to the number of ships, but I know that in 1752 ten thousand hogsheads of flax-seed, each

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containing seven bushels, were exported from Philadelphia to Ireland. I suppose the quantity is greatly increased since that time, and it is understood, that the exportation from New York is equal to that from Philadelphia.

Q. What becomes of the flax that grows with that flax-seed.

A. They manufacture some into coarse, and some into a middling kind of linen.

Q. Are there any *slitting-mills* in America?

A. I think there are three, but I believe only one at present employed. I suppose they will all be set to work, if the interruption of the trade continues.

Q. Are there any *fulling-mills* there?

A. A great many.

Q. Did you never hear, that a great quantity of *stockings* were contracted for, for the army, during the war, and manufactured in Philadelphia?

A. I have heard so.

Q. If the stamp-act should be repealed, would not the Americans think they could oblige the parliament to repeal every external tax-law now in force?

A. It is hard to answer questions of what people at such a distance will think.

Q. But what do you imagine they will think were the motives of repealing the act?

A. I suppose they will think, that it was repealed from a conviction of its inexpediency; and they will rely upon it, that while the same inexpediency subsists, you will never attempt to make such another.

Q. What do you mean by its inexpediency?

A. I mean its inexpediency on several accounts, the poverty and inability of those who were to pay the tax, the general discontent it has occasioned, and the impracticability of enforcing it.

Q. If the act should be repealed, and the legislature

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should show its resentment to the opposers of the stamp-act, would the colonies acquiesce in the authority of the legislature? What is your opinion they would do?

A. I don't doubt at all, that if the legislature repeal the stamp-act, the colonies will acquiesce in the authority.

Q. But if the legislature should think fit to ascertain its right to lay taxes, by any act laying a small tax, contrary to their opinion, would they submit to pay the tax?

A. The proceedings of the people in America have been considered too much together. The proceedings of the assemblies have been very different from those of the mobs, and should be distinguished, as having no connexion with each other. The *assemblies* have only peaceably resolved what they take to be their rights: they have taken no measures for opposition by force, they have not built a fort, raised a man, or provided a grain of ammunition, in order to such opposition. The ring-leaders of riots, they think, ought to be punished; they would punish them themselves, if they could. Every sober sensible man would wish to see rioters punished, as otherwise peaceable people have no security of person or estate. But as to an internal tax how small soever, laid by the legislature here on the people there, while they have no representatives in this legislature, I think it will never be submitted to: they will oppose it to the last. They do not consider it as at all necessary for you to raise money on them by your taxes; because they are, and always have been, ready to raise money by taxes among themselves, and to grant large sums, equal to their abilities, upon requisition from the crown. They have not only granted equal to their abilities, but, during all the last war, they granted far beyond their abilities, and beyond their proportion with this country (you yourselves being judges) to the amount of many hundred thousand pounds; and this they did freely and readily, only on a sort of promise, from the secretary of state, that it

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should be recommended to parliament to make them compensation. It was accordingly recommended to parliament, in the most honourable manner for them. America has been greatly misrepresented, and abused here in papers, and pamphlets, and speeches, as ungrateful, and unreasonable, and unjust; in having put this nation to immense expense for their defence, and refusing to bear any part of that expense. The colonies raised, paid, and clothed, near twenty-five thousand men during the last war: a number equal to those sent from Britain, and far beyond their proportion: they went deeply into debt in doing this, and all their taxes and estates are mortgaged, for many years to come, for discharging that debt. Government here was at that time very sensible of this. The colonies were recommended to parliament. Every year the king sent down to the house a written message to this purpose, "that his majesty, being highly sensible of the zeal and vigour with which his faithful subjects in North America had exerted themselves, in defence of his majesty's just rights and possessions; recommended it to the house to take the same into consideration, and enable him to give them a proper compensation." You will find those messages on your own journals every year of the war to the very last; and you did accordingly give 200,000l. annually to the crown, to be distributed in such compensation to the colonies. This is the strongest of all proofs that the colonies, far from being unwilling to bear a share of the burden, did exceed their proportion; for if they had done less, or had only equalled their proportion, there would have been no room or reason for compensation. Indeed, the sums reimbursed them were by no means adequate to the expense they incurred beyond their proportion; but they never murmured at that; they esteemed their sovereign's approbation of their zeal and fidelity, and the approbation of this house, far beyond any other kind of compensation, therefore there

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was no occasion for this act, to force money from a willing people: they had not refused giving money for the *purposes* of the act, no requisition had been made, they were always willing and ready to do what could reasonably be expected from them, and in this light they wish to be considered.

*Q.* But suppose Great Britain should be engaged in a *war in Europe*, would North America contribute to the support of it?

*A.* I do think they would, as far as their circumstances would permit. They consider themselves as a part of the British empire, and as having one common interest with it: they may be looked on here as foreigners, but they do not consider themselves as such. They are zealous for the honour and prosperity of this nation; and, while they are well used, will always be ready to support it, as far as their little power goes. In 1739 they were called upon to assist in the expedition against Cartagena, and they sent three thousand men to join your army. It is true Cartagena is in America, but as remote from the northern colonies, as if it had been in Europe. They make no distinction of wars, as to their duty of assisting in them. I know the *last war* is commonly spoken of here as entered into for the defence, or for the sake of the people in America. I think it is quite misunderstood. It began about the limits between Canada and Nova Scotia; about territories to which the *crown* indeed laid claim, but [which] were not claimed by any British *colony*; none of the lands had been granted to any colonist, we had therefore no particular concern or interest in that dispute.—As to the Ohio, the contest there began about your right of trading in the Indian country, a right you had by the treaty of Utrecht, which the French infringed: they seized the traders and their goods, which were your manufactures; they took a fort which a company of your merchants and their factors

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and correspondents had erected there, to secure that trade. Braddock was sent with an army to retake that fort (which was looked on here as another encroachment on the king's territory) and to protect your trade. It was not till after his defeat that the colonies were attacked. They were before in perfect peace with both French and Indians ; the troops were not therefore sent for their defence. The trade with the Indians, though carried on in America, is not an *American interest*. The people of America are chiefly farmers and planters, scarce any thing that they raise or produce is an article of commerce with the Indians. The Indian trade is a *British interest* : it is carried on with British manufactures, for the profit of British merchants and manufacturers ; therefore the war, as it commenced for the defence of territories of the crown (the property of no American), and for the defence of a trade purely British, was really a British war—and yet the people of America made no scruple of contributing their utmost towards carrying it on, and bringing it to a happy conclusion.

Q. Do you think then that the taking possession of the king's territorial rights, and *strengthening the frontiers*, is not an American interest ?

A. Not particularly, but conjointly a British and an American interest ?

Q. You will not deny that the preceding war, the *war with Spain*, was entered into for the sake of America ; was it not occasioned by *captures made in the American seas* ?

A. Yes ; captures of ships carrying on the British trade there with British manufactures.

Q. Was not the *late war with the Indians*, since the *peace with France*, a war for America only ?

A. Yes ; it was more particularly for America than the former ; but it was rather a consequence or remains of the

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former war, the Indians not having been thoroughly pacified; and the Americans bore by much the greatest share of the expense. It was put an end to by the army under General Bouquet; there were not above three hundred regulars in that army, and above one thousand Pennsylvanians.

Q. Is it not necessary to send troops to America, to defend the Americans against the Indians?

A. No, by no means: it never was necessary. They defended themselves when they were but an handful, and the Indians much more numerous. They continually gained ground, and have driven the Indians over the mountains, without any troops sent to their assistance from this country. And can it be thought necessary now to send troops for their defence from those diminished Indian tribes, when the colonies are become so populous, and so strong? There is not the least occasion for it, they are very able to defend themselves.

Q. Do you say there were no more than three hundred regular troops employed in the late Indian war?

A. Not on the Ohio, or the frontiers of Pennsylvania, which was the chief part of the war that affected the colonies. There were garrisons at Niagara, Fort Detroit, and those remote posts kept for the sake of your trade; I did not reckon them: but I believe that on the whole the number of Americans, or provincial troops, employed in the war, was greater than that of the regulars. I am not certain, but I think so.

Q. Do you think the assemblies have a right to levy money on the subject there, to grant to the Crown?

A. I certainly think so, they have always done it.

Q. Are they acquainted with the declaration of rights? and do they know that, by that statute, money is not to be raised on the subject but by consent of parliament?

A. They are very well acquainted with it.

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Q. How then can they think they have a right to levy money for the crown, or for any other than local purposes?

A. They understand that clause to relate to subjects only within the realm; that no money can be levied on them for the crown, but by consent of parliament. *The colonies* are not supposed to be within the realm: they have assemblies of their own, which are *their parliaments*; and they are, in that respect, in the same situation with Ireland. When money is to be raised for the crown upon the subject in Ireland, or in the colonies, consent is given in the parliament of Ireland, or in the assemblies of the colonies. They think the parliament of Great Britain cannot properly give that consent, till it has representatives from America; for the petition of right expressly says, it is to be by *common consent in parliament*; and the people of America have no representatives in parliament to make a part of that common consent.

Q. If the stamp act should be repealed, and an act should pass, ordering the assemblies of the colonies to indemnify the sufferers by the riots, would they obey it?

A. That is a question I cannot answer.

Q. Suppose the king should require the colonies to grant a revenue, and the parliament should be against their doing it, do they think they can grant a revenue to the king, *without* the consent of the parliament of Great Britain?

A. That is a deep question. As to my own opinion, I should think myself at liberty to do it, and should do it, if I liked the occasion.

Q. When money has been raised in the colonies, upon requisitions, has it not been granted to the king?

A. Yes, always; but the requisitions have generally been for some service expressed, as to raise, clothe, and pay troops, and not for money only.

Q. If the act should pass, requiring the American assemblies to make compensation to the sufferers, and they

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should disobey it, and then the parliament should by another act lay an internal tax, would they then obey it ?

A. The people will pay no internal tax ; and I think an act to oblige the assemblies to make compensation is unnecessary ; for I am of opinion, that as soon as the present heats are abated, they will take the matter into consideration, and if it is right to be done, they will do it of themselves.

Q. Do not letters often come into the post-offices in America directed to some inland town where no post goes ?

A. Yes.

Q. Can any private person take up those letters and carry them as directed ?

A. Yes ; any friend of the person may do it, paying the postage that has accrued.

Q. But must not he pay an additional postage for the distance to such inland town.

A. No.

Q. Can the post-master answer delivering the letter, without being paid such additional postage ?

A. Certainly he can demand nothing where he does no service.

Q. Suppose a person, being far from home, finds a letter in a post office directed to him, and he lives in a place to which the post generally goes, and the letter is directed to that place, will the post-master deliver him the letter, without his paying the postage receivable at the place to which the letter is directed ?

A. Yes ; the office cannot demand postage for a letter that it does not carry, or further than it does carry it.

Q. Are not ferrymen in America obliged, by act of parliament, to carry over the posts without pay ?

A. Yes.

Q. Is not this a tax on the ferrymen ?

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A. They do not consider it as such, as they have an advantage from persons travelling with the post.

Q. If the stamp act should be repealed, and the crown should make a requisition to the colonies for a sum of money, would they grant it?

A. I believe they would.

Q. Why do you think so?

A. I can speak for the colony I live in; I had it in *instruction* from the assembly to assure the ministry, that as they always had done, so they should always think it their duty, to grant such aids to the crown as were suitable to their circumstances and abilities, whenever called upon for that purpose, in the usual constitutional manner: and I had the honour of communicating this instruction to that honourable gentleman then minister.

Q. Would they do this for a British concern, as suppose a war in some part of Europe, that did not affect them?

A. Yes, for any thing that concerned the general interest. They consider themselves as part of the whole.

Q. What is the usual constitutional manner of calling on the colonies for aids?

A. A letter from the secretary of state.

Q. Is this all you mean; a letter from the secretary of state?

A. I mean the usual way of requisition, in a circular letter from the secretary of state, by his majesty's command, reciting the occasion, and recommending it to the colonies to grant such aids as become their loyalty, and were suitable to their abilities.

Q. Did the secretary of state ever write for money for the crown?

A. The requisitions have been to raise, clothe, and pay men, which cannot be done without money.

Q. Would they grant money alone, if called on?

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A. In my opinion they would, money as well as men, when they have money, or can make it.

Q. If the parliament should repeal the stamp act, will the assembly of Pennsylvania rescind their resolutions?

A. I think not.

Q. Before there was any thought of the stamp act, did they wish for a representation in parliament?

A. No.

Q. Don't you know that there is, in the Pennsylvanian charter, an express reservation of the right of parliament to lay taxes there?

A. I know there is a clause in the charter, by which the king grants that he will levy no taxes on the inhabitants, unless it be with the consent of the assembly, or by act of parliament.

Q. How then could the assembly of Pennsylvania assert, that laying a tax on them by the stamp act was an infringement of their rights?

A. They understand it thus: by the same charter, and otherwise, they are intitled to all the privileges and liberties of Englishmen; they find in the great charters, and the petition and declaration of rights, that one of the privileges of English subjects is, that they are not to be taxed but by their *common consent*; they have therefore relied upon it, from the first settlement of the province, that the parliament never would, nor could, by colour of that clause in the charter, assume a right of taxing them, *till* it had qualified itself to exercise such right, by admitting representatives from the people to be taxed, who ought to make a part of that common consent.

Q. Are there any words in the charter that justify that construction?

A. The common rights of Englishmen, as declared by Magna Charta, and the petition of right, all justify it.

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Q. Does the distinction between internal and external taxes exist in the words of the charter?

A. No, I believe not.

Q. Then may they not, by the same interpretation, object to the parliament's right of external taxation?

A. They never *have* hitherto. Many arguments have been lately used here to show them that there is no difference, and that if you have no right to tax them internally, you have none to tax them externally, or make any other law to bind them. At present they do not reason so; but in time they may possibly be convinced by these arguments.

Q. Do not the resolutions of the Pennsylvania assembly say—all taxes?

A. If they do, they mean only internal taxes; the same words have not always the same meaning here and in the colonies. By taxes they mean internal taxes; by duties they mean customs; these are their ideas of the language.

Q. Have you not seen the resolutions of the Massachusetts bay assembly?

A. I have.

Q. Do they not say, that neither external nor internal taxes can be laid on them by parliament?

A. I don't know that they do; I believe not.

Q. If the same colony should say, neither tax nor imposition could be laid, does not that province hold the power of parliament can lay neither?

A. I suppose that by the word imposition, they do not intend to express duties to be laid on goods imported, as *regulations of commerce*?

Q. What can the colonies mean then by imposition as distinct from taxes?

A. They may mean many things, as impressing of men, or of carriages, quartering troops on private houses, and

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the like ; there may be great impositions that are not properly taxes.

Q. Is not the post-office rate an internal tax laid by act of parliament ?

A. I have answered that.

Q. Are all parts of the colonies equally able to pay taxes ?

A. No, certainly : the frontier parts, which have been ravaged by the enemy, are greatly disabled by that means ; and therefore, in such cases, are usually favoured in our tax-laws.

Q. Can we, at this distance, be competent judges of what favours are necessary ?

A. The parliament have supposed it, by claiming a right to make tax laws for America ; I think it impossible.

Q. Would the repeal of the stamp act be any discouragement of your manufactures ? Will the people that have begun to manufacture decline it ?

A. Yes, I think they will ; especially if, at the same time, the trade is opened again, so that remittances can be easily made. I have known several instances that make it probable. In the war before last, tobacco being low, and making little remittance, the people of Virginia went generally into family manufactures. Afterwards, when tobacco bore a better price, they returned to the use of British manufactures. So fulling-mills were very much disused in the last war in Pennsylvania, because bills were then plenty ; and remittances could easily be made to Britain for English cloth and other goods.

Q. If the stamp act should be repealed, would it induce the assemblies of America to acknowledge the rights of parliament to tax them, and would they erase their resolutions ?

A. No, never

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Q. Are there no means of obliging them to erase those resolutions?

A. None that I know of; they will never do it, unless compelled by force of arms.

Q. Is there a power on earth that can force them to erase them?

A. No power, how great soever, can force men to change their opinions.

Q. Do they consider the post office as a tax, or as a regulation?

A. Not as a tax, but as a regulation and convenience; *every assembly* encouraged it, and supported it in its infancy, by grants of money, which they would not otherwise have done; and the people have always paid the postage.

Q. When did you receive the instructions you mentioned?

A. I brought them with me, when I came to England, about fifteen months since.

Q. When did you communicate that instruction to the minister?

A. Soon after my arrival,—while the stamping of America was under consideration, and *before* the bill was brought in.

Q. Would it be most for the interest of Great Britain, to employ the hands of Virginia in tobacco, or in manufactures?

A. In tobacco, to be sure.

Q. What used to be the pride of the Americans?

A. To indulge in the fashions and manufactures of Great Britain.

Q. What is now their pride?

A. To wear their old clothes over again, 'till they can make new ones.

*Withdrew.*

*Attempts of Dr. Franklin for Conciliation of Great Britain with the Colonies.*

DEAR SIR,

London, Nov. 28, 1768.

I received your obliging favour of the 12th instant. Your sentiments of the importance of the present dispute between Great Britain and the colonies, appear to me extremely just. There is nothing I wish for more than to see it amicably and equitably settled.

But Providence will bring about its own ends by its own means; and if it intends the downfall of a nation, that nation will be so blinded by its pride, and other passions, as not to see its danger, or how its fall may be prevented.

Being born and bred in one of the countries, and having lived long and made many agreeable connections of friendship in the other, I wish all prosperity to both: but I have talked, and written so much and so long on the subject, that my acquaintance are weary of hearing, and the public of reading, any more of it, which begins to make me weary of talking and writing; especially as I do not find that I have gained any point in either country, except that of rendering myself suspected, by my impartiality; in England, of being too much an American, and in America of being too much an Englishman. Your opinion, however, weighs with me, and encourages me to try one effort more, in a full, though concise state of facts, accompanied with arguments drawn from those facts; to be published about the meeting of parliament after the holidays.

If any good may be done I shall rejoice; but at present I almost despair.

Have you ever seen the barometer so low as of late?

2 d 2

**404 LETTER FROM LORD HOWE.**

The 22d instant mine was at 28, 41, and yet the weather fine and fair.

With sincere esteem, I am, dear friend,

Your's affectionately,

**B. FRANKLIN.**

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*Letter from Lord Howe to Dr. Franklin.*

*Eagle, June the 20th, 1776.*

I cannot, my worthy friend, permit the letters and parcels, which I have sent (in the state I received them) to be landed, without adding a word upon the subject of the injurious extremities in which our unhappy disputes have engaged us.

You will learn the nature of my mission, from the official dispatches which I have recommended to be forwarded by the same conveyance. Retaining all the earnestness I ever expressed, to see our differences accommodated; I shall conceive, if I meet with the disposition in the colonies which I was once taught to expect, the most flattering hopes of proving serviceable in the objects of the king's paternal solicitude, by promoting the establishment of lasting peace and union with the colonies. But if the deep-rooted prejudices of America, and the necessity of preventing her trade from passing into foreign channels, must keep us still a divided people, I shall, from every private as well as public motive, most heartily lament, that this is not the moment wherein those great objects of my ambition are to be attained; and that I am to be longer deprived of an opportunity to assure you personally of the regard with which

I am your sincere and faithful humble servant,

**HOWE.**

P. S. I was disappointed of the opportunity I expected for sending this letter, at the time it was dated: and have ever since been prevented by calms and contrary winds

from getting here, to inform General Howe of the commission with which I have the satisfaction to be charged, and of his being joined in it.

*Dr. Franklin's Answer to Lord Howe.*

MY LORD, Philadelphia, July 30, 1776.

I received safe the letters your lordship so kindly forwarded to me, and beg you to accept my thanks.

The official dispatches to which you refer me, contain nothing more than what we had seen in the act of parliament, viz. "Offers of pardon upon submission;" which I was sorry to find; as it must give your lordship pain to be sent so far on so hopeless a business.

Directing pardons to be offered to the colonies, who are the very parties injured, expresses indeed that opinion of our ignorance, baseness and insensibility, which your uninformed and proud nation has long been pleased to entertain of us; but it can have no other effect than that of increasing our resentments.—It is impossible we should think of submission to a government, that has, with the most wanton barbarity and cruelty, burned our defenceless towns in the midst of winter; excited the savages to massacre our [peaceful] farmers, and our slaves to murder their masters; and is even now \* bringing foreign mercenaries to deluge our settlements with blood. These atrocious injuries have extinguished every spark of affection for that parent country we once held so dear: but were it possible for *us* to forget and forgive them, it is not possible for *you* (I mean

\* An army of foreign mercenaries had, about this time, arrived at Staten Island and New York; hired from one of those princes who have never hesitated to sacrifice the best blood of their subjects for British gold. *Editor.*

the British nation) to forgive the people you have so heavily injured ; you can never confide again in those as fellow-subjects, and permit them to enjoy equal freedom, to whom you know you have given such just causes of lasting enmity ; and this must impel you, were we again under your government, to endeavour the breaking our spirit by the severest tyranny, and obstructing by every means in your power our growing strength and prosperity.

But your lordship mentions " the king's paternal solicitude for promoting the establishment of lasting peace and union with the colonies." If by *peace* is here meant, a peace to be entered into by distinct states, now at war ; and his majesty has given your lordship powers to treat with us of such a peace, I may venture to say, though without authority, that I think a treaty for that purpose not quite impracticable, before we enter into foreign alliances, But I am persuaded you have no such power. Your nation, though, by punishing those American governors who have fomented the discord, rebuilding our burnt towns, and repairing as far as possible the mischiefs done us, she might recover a great share of our regard ; and the greatest share of our growing commerce, with all the advantages of that additional strength, to be derived from a friendship with us ; yet I know too well her abounding pride and deficient wisdom, to believe she will ever take such salutary measures. Her fondness for conquest as a warlike nation ; her lust of dominion as an ambitious one ; and her thirst for a gainful monopoly as a commercial one (none of them legitimate causes of war) will join to hide from her eyes every view of her true interest, and continually goad her on in these ruinous distant expeditions, so destructive both of lives and of treasure, that they must prove as pernicious to her in the end, as the Croisades formerly were to most of the nations of Europe.

I have not the vanity, my lord, to think of intimidating,

by thus predicting the effects of this war; for I know it will in England have the fate of all my former predictions; not to be believed till the event shall verify it.

Long did I endeavour, with unfeigned and unwearied zeal, to preserve from breaking that fine and noble porcelaine vase—the British empire; for I knew that being once broken, the separate parts could not retain even their *share* of the strength and value that existed in the whole; and that a perfect *re-union* of those parts could scarce ever be hoped for. Your lordship may possibly remember the tears of joy that wetted my cheek, when, at your good sister's in London, you once gave me expectations, that a reconciliation might soon take place. I had the misfortune to find these expectations disappointed, and to be treated as the cause of the mischief I was labouring to prevent. My consolation under that groundless and malevolent treatment was, that I retained the friendship of many wise and good men in that country; and among the rest, some share in the regard of Lord Howe.

The well founded esteem, and permit me to say affection, which I shall always have for your lordship, make it painful to me to see you engaged in conducting a war, the great ground of which (as described in your letter) is “the necessity of preventing the American *trade* from passing into foreign channels.” To me it seems, that neither the obtaining or retaining any trade, how valuable soever, is an object for which men may justly spill each other's blood; that the true and sure means of extending and securing commerce are the goodness and cheapness of commodities; and that the profits of no trade can ever be equal to the expence of compelling it, and holding it by fleets and armies. I consider this war against us, therefore, as both unjust and unwise; and I am persuaded, that cool and dispassionate posterity will condemn to infamy those who advised it; and that even success will not save from

some degree of dishonour, those who have voluntarily engaged to conduct it.

I know your great motive in coming hither was the hope of being instrumental in a reconciliation ; and I believe, when you find that to be impossible, on any terms given you to propose, you will then relinquish so odious a command, and return to a more honourable private station.

With the greatest and most sincere respect, I have the honour to be, my lord,

Your lordship's most obedient, humble servant,

B. FRANKLIN.

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*Rules for reducing a Great Empire to a small one, presented to a late Minister, when he entered upon his Administration.*

An ancient sage valued himself upon this, that though he could not fiddle, he knew how to make a great city of a little one. The science, that I, a modern simpleton, am about to communicate, is the very reverse.

I address myself to all ministers, who have the management of extensive dominions, which, from their very greatness, are become troublesome to govern, because the multiplicity of their affairs leaves no time for fiddling.

I. In the first place, gentlemen, you are to consider, that a great empire, like a great cake, is most easily diminished at the edges. Turn your attention, therefore, first to your *remotest* provinces ; that, as you get rid of them, the next may follow in order.

II. That the possibility of this separation may always exist, take special care the provinces are *never incorporated with the mother-country* : that they do not enjoy the same common rights, the same privileges in commerce, and that they are governed by severer laws, all of your enact-

ing, without allowing them any share in the choice of the legislators. By carefully making and preserving such distinctions, you will (to keep to my simile of the cake) act like a wise gingerbread baker; who, to facilitate a division, cuts his dough half through in those places, where, when baked, he would have it broken to pieces.

III. Those remote provinces have perhaps been acquired, purchased, or conquered, at the sole expense of the settlers or their ancestors, without the aid of the mother-country. If this should happen to increase her strength, by their growing numbers, ready to join in her wars; her commerce, by their growing demand for her manufactures; or her naval power, by greater employment for her ships and seamen, they may probably suppose some merit in this, and that it entitles them to some favour: you are therefore to *forget it all, or resent it*, as if they had done you injury. If they happen to be zealous whigs, friends of liberty, nurtured in revolutionary principles; remember all that to their prejudice, and contrive to punish it: for such principles, after a revolution is thoroughly established, are of no more use; they are even odious and abominable.

IV. However peaceably your colonies have submitted to your government, shown their affection to your interests, and patiently borne their grievances, you are to suppose them *always inclined to revolt*, and treat them accordingly. Quarter troops among them, who, by their insolence, may provoke the rising of mobs, and by their bullets and bayonets suppress them. By this means, like the husband who uses his wife ill from suspicion, you may in time convert your suspicions into realities.

V. Remote provinces must have governors and judges, to represent the royal person and execute every where the delegated parts of his office and authority. You, ministers, know, that much of the strength of government depends on the opinion of the people, and much of that op-

nion on the *choice of rulers* placed immediately over them. If you send them wise and good men for governors, who study the interest of the colonists, and advance their prosperity; they will think their king wise and good, and that he wishes the welfare of his subjects. If you send them learned and upright men for judges, they will think him a lover of justice. This may attach your provinces more to his government. You are therefore to be careful who you recommend for those offices. If you can find prodigals, who have ruined their fortunes, broken gamblers or stock-jobbers, these may do well as governors, for they will probably be rapacious, and provoke the people by their extortions. Wrangling proctors and pettyfogging lawyers, too are not amiss, for they will be for ever disputing and quarrelling with their little parliaments. If withal they should be ignorant, wrong-headed, and insolent, so much the better. Attorneys' clerks and Newgate solicitors will do for their chief justices, especially if they hold their places during your pleasure:—and all will contribute to impress those ideas of your government, that are proper for a people you would wish to renounce it.

VI. To confirm these impressions, and strike them deeper, whenever the injured come to the capital with complaints of mal-administration, oppression, or injustice, *punish such suitors* with long delay, enormous expense, and a final judgment in favour of the oppressor. This will have an admirable effect every way. The trouble of future complaints will be prevented, and governors and judges will be encouraged to farther acts of oppression and injustice, and thence the people may become more disaffected, and at length desperate.

VII. When such governors have crammed their coffers, and made themselves so odious to the people, that they can no longer remain among them with safety to their persons, *recall and reward* them with pensions. You may make them

baronets too, if that respectable order should not think fit to resent it. All will contribute to encourage new governors in the same practice, and make the supreme government detestable.

VIII. If, when you are engaged in war, your colonies should vie in liberal aids of men and money against the common enemy upon your simple requisition, and give far beyond their abilities,—reflect, that a penny, taken from them by your power, is more honourable to you, than a pound presented by their benevolence; *despise therefore their voluntary grants*, and resolve to harass them with *novel taxes*. They will probably complain to your parliament, that they are taxed by a body in which they have no representative, and that this is contrary to common right. They will petition for redress. Let the parliament flout their claims, reject their petitions, refuse even to suffer the reading of them, and treat the petitioners with the utmost contempt. Nothing can have a better effect in producing the alienation proposed; for though many can forgive injuries, none ever forgave contempt.

IX. In laying these taxes, *never regard the heavy burdens* those remote people already undergo, in defending their own frontiers, supporting their own provincial government, making new roads, building bridges, churches, and other public edifices, which in old countries have been done to your hands, by your ancestors, but which occasion constant calls and demands on the purses of a new people. Forget the restraint you lay on their trade for your own benefit, and the advantage a monopoly of this trade gives your exacting merchants. Think nothing of the wealth those merchants and your manufacturers acquire by the colony commerce, their increased ability thereby to pay taxes at home, their accumulating, in the price of their commodities, most of those taxes, and so levying them from their consuming customers: all this, and the employ-

ment and support of thousands of your poor by the colonists, you are entirely to forget. But remember to make your arbitrary tax more grievous to your provinces, by public declarations, importing, that your power of taxing them has *no limits*, so that when you take from them without their consent a shilling in the pound, you have a clear right to the other nineteen. This will probably weaken every idea of security in their property, and convince them, that under such a government they have nothing they can call their own; which can scarce fail of producing the happiest consequences!

X. Possibly, indeed, some of them might still comfort themselves, and say, though we have no property, we have yet something left that is valuable, we have constitutional *liberty, both of person and of conscience*. This king, these lords, and these commons, who it seems are, too remote from us to know us and feel for us, cannot take from us our *habeas corpus* right, or our right of trial by a jury of our neighbours: they cannot deprive us of the exercise of our religion, after our ecclesiastical constitution, and compel us to be Papists, if they please, or Mahometans." To annihilate this comfort, begin by laws to perplex their commerce with infinite regulations, impossible to be remembered and observed; ordain seizures of their property for every failure, take away the trial of such property by jury, and give it to arbitrary judges of your own appointing, and of the lowest characters in the country, whose salaries and emoluments are to arise out of the duties or condemnations, and whose appointments are during pleasure. Then let there be a formal declaration of both houses, that opposition to your edicts is treason, and that persons suspected of treason in the provinces may, according to some obsolete law, be seized and sent to the metropolis of the empire for trial; and pass an act, that those there charged with certain other offences shall be sent away in chains from

their friends and country, to be tried in the same manner for felony. Then erect a new court of inquisition among them, accompanied by an armed force, with instructions to transport all such suspected persons, to be ruined by the expense, if they bring over evidences to prove their innocence; or be found guilty and hanged, if they cannot afford it. And lest the people should think you cannot possibly go any farther, pass another solemn declaratory act, "that king, lords, and commons, had, have, and of right ought to have, full power and authority to make statutes of sufficient force and validity, to bind the unrepresented provinces *in all cases whatsoever.*" This will include spiritual with temporal, and taken together must operate wonderfully to your purpose, by convincing them, that they are at present under a power, something like that spoken of in the Scriptures, which can not only kill their bodies, but damn their souls to all eternity, by compelling them, if it pleases, to worship the devil.

XI. To make your taxes more odious, and more likely to procure resistance, send from the capital a *board of officers* to superintend the collection, composed of the most indiscreet, ill-bred, and insolent you can find. Let these have large salaries out of the extorted revenue, and live in open grating luxury upon the sweat and blood of the industrious, whom they are to worry continually with groundless and expensive prosecutions, before the above-mentioned and arbitrary revenue-judges; all at the cost of the party prosecuted, though acquitted, because the king is to pay no costs. Let these men, by your order, be exempted from all the common taxes and burdens of the province, though they and their property are protected by its laws. If any revenue officers are suspected of the least tenderness for the people, discard them. If others are justly complained of, protect and reward them. If any of the under officers behave so as to provoke the people to drub them,

promote those to better offices: this will encourage others to procure for themselves such profitable drubbings, by multiplying and enlarging such provocations, and all will work towards the end you aim at.

XII. Another way to make your tax odious, is, to *misapply the produce of it*. If it was originally appropriated for the defence of the provinces, and the better support of government, and the administration of justice, where it may be necessary; then apply none of it to that defence, but bestow it, where it is not necessary, in augmenting salaries or pensions to every governor, who has distinguished himself by his enmity to the people, and by calumniating them to their sovereign. This will make them pay it more unwillingly, and be more apt to quarrel with those that collect it, and those that imposed it, who will quarrel again with them, and all shall contribute to your own purpose, of making them weary of your government.

XIII. If the people of any province have been accustomed to *support their own governors and judges* to satisfaction, you are to apprehend, that such governors and judges may be thereby influenced to treat the people kindly, and to do them justice. This is another reason for applying part of that revenue in larger salaries to such governors and judges, given, as their commissions are, during *your pleasure only*, forbidding them to take any salaries from their provinces; that thus the people may no longer hope any kindness from their governors, or (in crown cases) any justice from their judges. And as the money, thus misapplied in one province, is extorted from all, probably all will resent the misapplication.

XIV. If the parliaments of your provinces should dare to claim rights, or complain of your administration, order them to be harassed with *repeated dissolutions*. If the same men are continually returned by new elections, adjourn their meetings to some country village, where they

cannot be accommodated, and there keep them during pleasure ; for this, you know, is your prerogative, and an excellent one it is, as you may manage it, to promote discontents among the people, diminish their respect, and increase their disaffection.

XV. Convert the brave honest officers of your *navy* into pimping tide-waiters and colony officers of the *customs*. Let those who in time of war fought gallantly in defence of the commerce of their countrymen, in peace be taught to prey upon it. Let them learn to be corrupted by great and real smugglers ; but (to show their diligence) scour with armed boats every bay, harbour, river, creek, cove, or nook, throughout the coast of your colonies ; stop and detain every coaster, every wood-boat, every fisherman, tumble their cargoes and even their ballast inside out, and upside down ; and if a pennyworth of pins is found unentered, let the whole be seized and confiscated. Thus shall the trade of your colonists suffer more from their friends in time of peace, than it did from their enemies in war. Then let these boats' crews land upon every farm in their way, rob their orchards, steal their pigs and poultry, and insult the inhabitants. If the injured and exasperated farmers, unable to procure other justice, should attack the aggressors, drub them, and burn their boats, you are to call this *high treason and rebellion*, order fleets and armies into their country, and threaten to carry all the offenders three thousand miles to be hanged, drawn, and quartered. O ! this will work admirably !

XVI. If you are told of *discontents* in your colonies, never believe that they are general, or that you have given occasion for them ; therefore do not think of applying any remedy, or of changing any offensive measure. Redress no grievance, lest they should be encouraged to demand the redress of some other grievance. Grant no request that is just and reasonable, lest they should make another,

that is unreasonable. Take all your informations of the state of the colonies from your governors and officers in enmity with them. Encourage and reward these leasing-makers, secrete their lying accusations, lest they should be confuted, but act upon them as the clearest evidence; and believe nothing you hear from the friends of the people. Suppose all *their* complaints to be invented and promoted by a few factious demagogues, whom if you could catch and hang, all would be quiet. Catch and hang a few of them accordingly, and the blood of the martyrs shall work miracles in favour of your purpose.

XVII. If you see *rival nations* rejoicing at the prospect of your disunion with your provinces, and endeavouring to promote it, if they translate, publish, and applaud all the complaints of your discontented colonists, at the same time privately stimulating you to severer measures, let not that alarm or offend you. Why should it? since you all mean the same thing.

XVIII. If any colony should *at their own charge erect a fortress*, to secure their *port* against the fleets of a foreign enemy, get your governor to betray that fortress into your hands. Never think of paying what it cost the country, for that would look, at least, like some regard for justice; but turn it into a citadel, to awe the inhabitants and curb their commerce. If they should have lodged in such fortress the very arms they bought and used to aid you in your conquests, seize them all; it will provoke like ingratitude added to robbery. One admirable effect of these operations will be, to discourage every other colony from erecting such defences, and so their and your enemies may more easily invade them, to the great disgrace of your government, and of course the furtherance of your project.

XIX. Send armies into their country, under pretence of protecting the inhabitants; but, instead of garrisoning the forts on their frontiers with those troops, to prevent

incursions, demolished those forts, and order the troops into the heart of the country, that the savages may be encouraged to attack the frontiers, and that the troops may be protected by the inhabitants: this will seem to proceed from your ill-will or your ignorance, and contribute farther to produce and strengthen an opinion among them, that you are no longer fit to govern them.

XX. Lastly, invest the general of your army in the provinces with great and unconstitutional powers, and free him from the controul of even your own civil governors. Let him have troops now under his command, with all the fortresses in his possession, and who knows but (like some provincial generals in the Roman empire, and encouraged by the universal discontent you have produced) he may take it into his head to set up for himself? If he should, and you have carefully practised these few excellent rules of mine, take my word for it, all the provinces will immediately join him—and you will that day (if you have not done it sooner) get rid of the trouble of governing them, and all the plagues attending their commerce and connection from thenceforth and for ever.

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*A Prussian Edict, assuming Claims over Britain.*

*Dantzick, Sept. 5, 1773.\**

We have long wondered here at the supineness of the English nation, under the Prussian impositions upon its trade entering our port. We did not, till lately, know the claims, ancient and modern, that hang over that nation, and

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\* This intelligence extraordinary, first appeared in the Public Advertiser.

therefore could not suspect that it might submit to those impositions from a sense of duty, or from principles of equity. The following edict, just made public, may, if serious, throw some light upon this matter :

" Frederick, by the grace of God, king of Prussia, &c. &c. &c. to all present and to come, health. The peace now enjoyed throughout our dominions, having afforded us leisure to apply ourselves to the regulation of commerce, the improvement of our finances, and at the same time the easing our *domestic* subjects in their taxes : for these causes, and other good considerations us thereunto moving, we hereby make known, that, after having deliberated these affairs in our council, present our dear brothers and other great officers of the state, members of the same ; we, of our certain knowledge, full power, and authority royal, have made and issued this present edict, viz.

" Whereas it is well known to all the world, that the first German settlements made in the island of Britain were by colonies of people subjects to our renowned ducal ancestors, and drawn from their dominions, under the conduct of Hengist, Horsa, Hella, Uffa, Cerdicus, Ida, and others ; and that the said colonies have flourished under the protection of our august house for ages past, have never been emancipated therefrom, and yet have hitherto yielded little profit to the same : and whereas we ourself have in the last war fought for, and defended the said colonies, against the power of France, and thereby enabled them to make conquests from the said power in America, for which we have not yet received adequate compensation : and whereas it is just and expedient that a revenue should be raised from the said colonies in Britain towards our indemnification ; and that those who are descendants of our ancient subjects, and thence still owe us due obedience, should contribute to the replenishing of our royal coffers .

(as they must have done, had their ancestors remained in the territories now to us appertaining) we do therefore hereby ordain and command, that, from and after the date of these presents, there shall be levied and paid to our officers of the *customs*, on all goods, wares, and merchandizes, and on all grain and other produce of the earth, exported from the said island of Britain, and on all goods of whatever kind imported into the same, a duty of four and a half per cent. ad valorem, for the use of us and our successors. And that the said duty may more effectually be collected, we do hereby ordain, that all ships or vessels bound from Great Britain to any other part of the world, or from any other part of the world to Great Britain, shall in their respective voyages touch at our port of Koningsberg, there to be unladen, searched, and charged with the said duties.

And whereas there hath been from time to time discovered in the said island of Great Britain, by our colonists there, many mines or beds of iron-stone; and sundry subjects of our ancient dominion, skilful in converting the said stone into metal, have in time past transported themselves thither, carrying with them and communicating that art; and the inhabitants of the said island, presuming that they had a natural right to make the best use they could of the natural productions of their country, for their own benefit, have not only built furnaces for smelting the said stone into iron, but have erected plating-forges, slitting-mills, and steel-furnaces, for the more convenient manufacturing of the same, thereby endangering a diminution of the said manufacture in our ancient dominion: we do therefore hereby farther ordain, that, from and after the date hereof, no mill or other engine for slitting or rolling of iron, or any plating-forge to work with a tilt-hammer, or any furnace for making steel, shall be erected or continued in the said island of Great Britain: and the lord-lieutenant of every

county in the said island is hereby commanded, on information of any such erection within his county to order, and by force to cause the same to be abated and destroyed, as he shall answer the neglect thereof to us at his peril. But we are nevertheless graciously pleased to permit the inhabitants of the said island to transport their iron into Prussia, there to be manufactured, and to them returned, they paying our Prussian subjects for the workmanship, with all the costs of commission, freight, and risk, coming and returning ; any thing herein contained to the contrary notwithstanding

“ We do not, however, think fit to extend this our indulgence to the article of *wool*; but meaning to encourage not only the manufacturing of woollen cloth, but also the raising of wool in our ancient dominions, and to prevent both, as much as may be, in our said island, we do hereby absolutely forbid the transportation of wool from thence even to the mother-country, Prussia; and that those islanders may be farther and more effectually restrained in making any advantage of their own wool, in the way of manufacture, we command, that none shall be carried out of one country into another; nor shall any worsted, bay, or woollen-yarn, cloth, says, bays, kerseys, serges, friezes, druggets, cloth-serges, shalloons, or any other drapery stuffs or woollen manufactures whatsoever, made up or mixed with wool in any of the said counties, be carried into any other country, or be water-borne even across the smallest river or creek, on penalty of forfeiture of the same, together with the boats, carriages, horses, &c. that shall be employed in removing them. Nevertheless, our loving subjects there are hereby permitted (if they think proper) to use all their wool as manure, for the improvement of their lands.

“ And whereas the art and mystery of making *hats* hath arrived at great perfection in Prussia, and the making of

hats by our remoter subjects ought to be as much as possible restrained: and forasmuch as the islanders before mentioned being in possession of wool, beaver, and other furs, have presumptuously conceived they had a right to make some advantage thereof, by manufacturing the same into hats, to the prejudice of our domestic manufacture: we do therefore hereby strictly command and ordain, that no hats or felts whatsoever, dyed or undyed, finished or unfinished, shall be loaden or put into or upon any vessel, cart, carriage, or horse, to be transported or conveyed out of one county in the said island into another county, or to any other place whatsoever, by any person or persons whatsoever, on pain of forfeiting the same, with a penalty of five hundred pounds sterling for every offence. Nor shall any hat maker in any of the said counties employ more than two apprentices, on penalty of five pounds sterling per month: we intending hereby that such hat-makers, being so restrained, both in the production and sale of their commodity, may find no advantage in continuing their business. But, lest the said islanders should suffer inconveniency by the want of hats, we are farther graciously pleased to permit them to send their beaver furs to Prussia, and we also permit hats made thereof to be exported from Prussia to Britain; the people thus favoured to pay all costs and charges of manufacturing, interest, commission to our merchants, insurance and freight going and returning, as in the case of iron.

“ And lastly, being willing farther to favour our said colonies in Britain, we do hereby also ordain and command, that all the *thieves*, highway and street robbers, house-breakers, forgers, murderers, and villains of every denomination, who have forfeited their lives to the law in Prussia, but whom we, in our great clemency, do not think fit to hang, shall be emptied out of our gaols into the said island of Great Britain, for the better peopling of that country.

" We flatter ourselves, that these our royal regulations and commands will be thought *just and reasonable* by our much-favoured colonists in England ; the said regulations being copied from their statutes of 10 and 11 Will. III. c. 10 ;—5 Geo. II. c. 22 ; 23 Geo. II. c. 29 ; 4 Geo. I. c. 11 ; and from other equitable laws made by their parliaments, or from instructions given by their princes, or from resolutions of both houses, entered into for the good government of their *own colonies in Ireland and America*.

" And all persons in the said island are hereby cautioned, not to oppose in anywise the execution of this our edict, or any part thereof, such opposition being high-treason ; of which all who are suspected shall be transported in fetters from Britain to Prussia, there be tried and executed according to the Prussian law.

" Such is our pleasure,  
" Given at Potzdam, this twenty-fifth day of the month  
of August, one thousand seven hundred and seventy  
three, and in the thirty-third year of our reign.

" By the king, in his council.

" RECHTMÆSSIG, Sec."

Some take this edict to be merely one of the king's *jeux d'esprit*. others suppose it serious, and that he means a quarrel with England : but all here think the assertion it concludes with, " that these regulations are copied from acts of the English parliament respecting their colonies," a very injurious one ; it being impossible to believe, that a people distinguished for their love of liberty ; a nation so wise, so liberal in its sentiments, so just and equitable towards its neighbours, should, from mean and injudicious views of petty immediate profit, treat its own children in a manner so arbitrary and tyrannical !

*Parable against Persecution, in Imitation of Scripture Language.*

1. And it came to pass after these things, that Abraham sat in the door of his tent, about the going down of the sun.

2. And behold a man bent with age, coming from the way of the wilderness leaning on a staff.

3. And Abraham arose, and met him, and said unto him, Turn in, I pray thee, and wash thy feet, and tarry all night: and thou shalt arise early in the morning, and go on thy way.

4. And the man said, Nay; for I will abide under this tree.

5. But Abraham pressed him greatly: so he turned, and they went into the tent: and Abraham baked unleaven bread, and they did eat.

6. And when Abraham saw that the man blessed not God, he said unto him, Wherefore dost thou not worship the most high God, creator of heaven and earth?

7. And the man answered and said, I do not worship thy God, neither do I call upon his name, for I have made to myself a god, which abideth always in my house, and provideth me with all things.

8. And Abraham's zeal was kindled against the man, and he arose, and fell upon him, and drove him forth with blows into the wilderness.

9. And God called unto Abraham, saying, Abraham, where is the stranger?

10. And Abraham answered and said, Lord, he would not worship thee, neither would he call upon thy name, therefore have I driven him out from before my face, into the wilderness.

11. And God said, Have I borne with him these hundred and ninety and eight years, and nourished him, and clothed him, notwithstanding his rebellion against me, and couldst not thou, who art thyself a sinner, bear with him one night?

12. And Abraham said, Let not the anger of my Lord wax hot against his servant; lo, I have sinned, forgive me, I pray thee.

13. And Abraham arose, and went forth into the wilderness, and diligently sought for the man, and found him, and returned with him to the tent, and when he had entreated him kindly, he sent him away on the morrow with gifts.

14. And God spake unto Abraham saying, For this thy sin shall thy seed be afflicted four hundred years in a strange land.

15. But for thy repentance will I deliver them and they shall come forth with power, and with gladness of heart and with much substance.

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TO BENJAMIN VAUGHAN, ESQ.

*On the Criminal Laws, and the Practice of Privateering.*

MY DEAR FRIEND,

March 14, 1785.

Among the pamphlets you lately sent me, was one, entitled, Thoughts on Executive Justice. In return for that, I send you a French one on the same subject, Observations concerning l'Exécution de l'Article II. de la Déclaration sur le Vol. They are both addressed to the judges, but written, as you will see, in a very different spirit. The English author is for hanging *all* thieves. The Frenchman is for proportioning punishments to offences.

If we really believe, as we profess to believe, that the law of Moses was the law of God, the dictate of divine wis-

dom, infinitely superior to human; on what principles do we ordain death as the punishment of an offence, which, according to that law, was only to be punished by a restitution of fourfold? To put a man to death for an offence which does not deserve death, is it not a murder? And, as the French writer says, *Doit on punir un délit contre la société par un crime contre la nature?*

Superfluous property is the creature of society. Simple and mild laws were sufficient to guard the property that was merely necessary. The savage's bow, his hatchet, and his coat of skins, were sufficiently secured, without law, by the fear of personal resentment and retaliation. When by virtue of the first laws, part of the society accumulated wealth and grew powerful, they enacted others more severe, and would protect their property at the expense of humanity. This was abusing their power, and commencing a tyranny. If a savage, before he entered into society, had been told—"Your neighbour, by this means, may become owner of an hundred deer; but if your brother, or your son, or yourself, having no deer of your own, and being hungry, should kill one, an infamous death must be the consequence:" he would probably have preferred his liberty, and his common right of killing any deer, to all the advantages of society that might be proposed to him.

That it is better a hundred guilty persons should escape, than that one innocent person should suffer, is a maxim that has been long and generally approved; never, that I know of, controverted. Even the sanguinary author of the "Thoughts" agrees to it, adding well, "that the very thought of injured innocence, and much more that of suffering innocence, must awaken all our tenderest and most compassionate feelings, and at the same time raise our highest indignation against the instruments of it. "But," he adds, "there is no danger of either, from a strict adherence to the laws." Really! Is it then impossible to

make an unjust law? and if the law itself be unjust, may it not be the very "instrument" which ought "to raise the author's and every body's highest indignation?" I see, in the last newspapers from London, that a woman is capitally convicted at the Old Bailey, for privately stealing out of a shop, some gauze, value fourteen shillings and three-pence: is there any proportion between the injury done by a theft, value fourteen shillings and three-pence, and the punishment of a human creature by death, on a gibbet? Might not that woman, by her labour, have made the reparation ordained by God, in paying four-fold? Is not all punishment, inflicted beyond the merit of the offence, so much punishment of innocence? In this light, how vast is the annual quantity, of not only *injured* but *suffering* innocence, in almost all the civilized states of Europe!

But it seems to have been thought, that this kind of innocence may be punished by way of *preventing* crimes. I have read, indeed, of a cruel Turk in Barbary, who, whenever he bought a new Christian slave, ordered him immediately to be hung up by the legs, and to receive a hundred blows of a cudgel on the soles of his feet, that the severe sense of the punishment, and fear of incurring it thereafter, might prevent the faults that should merit it. Our author himself would hardly approve entirely of this Turk's conduct in the government of slaves; and yet he appears to recommend something like it for the government of English subjects, when he applauds the reply of judge Burnet to the convict horse-stealer? who being asked what he had to say why judgment of death should not pass against him, and answering that it was hard to hang a man for *only* stealing a horse, was told by the judge, "Man, thou art not to be hanged *only* for stealing a horse, but that horses may not be stolen." The man's answer, if candidly examined, will, I imagine, appear reasonable, as being

founded on the eternal principle of justice and equity, that punishments should be proportioned to offences; and the judge's reply brutal and unreasonable, though the writer "wishes all judges to carry it with them whenever they go the circuit, and to bear it in their minds, as containing a wise reason for all the penal statutes, which they are called upon to put in execution. It at once illustrates," says he, "the true grounds and reasons of all capital punishments whatsoever, namely, that every man's property, as well as his life, may be held sacred and inviolate." Is there then no difference in value between property and life? If I think it right, that the crime of murder should be punished with death, not only as an equal punishment of the crime, but to prevent other murders, does it follow, that I must approve of inflicting the same punishment for a little invasion of my property by theft? If I am not myself so barbarous, so bloody-minded, and revengeful, as to kill a fellow-creature for stealing from me fourteen shillings and three-pence, how can I approve of a law that does it? Montesquieu, who was himself a judge, endeavours to impress other maxims. He must have known what humane judges feel on such occasions, and what the effects of those feelings: and, so far from thinking that severe and excessive punishments prevent crimes, he asserts, as quoted by our French writer, that

"*L'atrocité des loix en empêche l'exécution.*

"*Lorsque la peine est sans mesure, on est souvent obligé de lui préférer l'impunité.*

"*La cause de tous les relâchemens vient de l'impunité des crimes, et non de la modération des peines.*"

It is said by those who know Europe generally, that there are more thefts committed and punished annually in England, than in all the other nations put together. If this be so, there must be a cause or causes for such depravity in our common people. May not one be the defi-

ciency of justice and morality in our national government, manifested in our oppressive conduct to subjects, and unjust wars on our neighbours? View the long-persisted in, unjust, monopolizing treatment of Ireland, at length acknowledged! View the plundering government exercised by our merchants in the Indies; the confiscating war made upon the American colonies: and, to say nothing of those upon France and Spain, view the late war upon Holland, which was seen by impartial Europe in no other light than that of a war of rapine and pillage; the hopes of an immense and easy prey being its only apparent, and probably its true and real motive and, encouragement. Justice is as strictly due between neighbour nations, as between neighbour citizens. A highwayman is as much a robber when he plunders in a gang, as when single; and a nation that makes an unjust war is only a great gang. After employing your people in robbing the Dutch, strange is it, that, being put out of that employ by peace, they still continue robbing, and rob one another? *Piraterie*, as the French call it, or privateering, is the universal bent of the English nation, at home and abroad, wherever settled. No less than seven hundred privateers were, it is said, commissioned in the last war! These were fitted out by merchants, to prey upon other merchants, who had never done them any injury. Is there probably any one of those privateering merchants of London who were so ready to rob the merchants of Amsterdam, that would not as readily plunder another London merchant of the next street, if he could do it with the same impunity! The avidity, the *alieni appetens*, is the same; it is the fear alone of the gallows that makes the difference. How then can a nation, which among the honestest of its people, has so many thieves by inclination, and whose government encouraged and commissioned no less than seven hundred gangs of robbers, how can such a nation have the face to condemn the

crime in individuals, and hang up twenty of them in a morning ! It naturally puts one in mind of a Newgate anecdote. One of the prisoners complained, that in the night somebody had taken his buckles out of his shoes. "What the devil !" says another, "have we then *thieves* amongst us ? It must not be suffered. Let us search out the rogue, and pump him to death."

There is, however, one late instance of an English merchant, who will not profit by such ill-gotten gain. He was, it seems, part owner of a ship, which the other owners thought fit to employ as a letter of marque, and which took a number of French prizes. The booty being shared, he has now an agent here inquiring, by an advertisement in the Gazette, for those who suffered the loss, in order to make them, as far as in him lies, restitution. This conscientious man is a Quaker. The Scotch Presbyterians were formerly as tender ; for there is still extant an ordinance of the town-council of Edinburgh, made soon after the reformation, " forbidding the purchase of prize goods, under pain of losing the freedom of the burgh for ever, with other punishment at the will of the magistrate ; the practice of making prizes being contrary to good conscience, and the rule of treating Christian brethren as we would wish to be treated ; and such goods *are not to be sold by any godly men within this burgh.*" The race of these godly men in Scotland is probably extinct, or their principles abandoned, since, as far as that nation had a hand in promoting the war against the colonies, prizes and confiscations are believed to have been a considerable motive.

It has been for some time a generally received opinion, that a military man is not to inquire whether a war be just or unjust ; he is to execute his orders. All princes who are disposed to become tyrants must probably approve of this opinion, and be willing to establish it ; but is it not a dangerous one ? since, on that principle, if the tyrant com-

mands his army to attack and destroy, not only an unfriendly neighbouring nation, but even his own subjects, the army is bound to obey. A negro slave, in our colonies, being commanded by his master to rob or murder a neighbour, or do any other immoral act, may refuse, and the magistrate will protect him in his refusal. The slavery then of a soldier is worse than that of a negro! A conscientious officer, if not restrained by the apprehension of its being imputed to another cause, may indeed resign, rather than be employed in an unjust war; but the private men are slaves for life; and they are perhaps incapable of judging for themselves. We can only lament their fate, and still more that of a sailor, who is often dragged by force from his honest occupation, and compelled to imbrue his hands in, perhaps, innocent blood. But methinks it well behoves merchants (men more enlightened by their education, and perfectly free from any such force or obligation) to consider well of the justice of a war, before they voluntarily engage a gang of ruffians to attack their fellow merchants of a neighbouring nation, to plunder them of their property and perhaps ruin them and their families, if they yield it; or to wound, maim, or murder them, if they endeavour to defend it. Yet these things are done by Christian merchants, whether a war be just or unjust; and it can hardly be just on both sides. They are done by English and American merchants, who, nevertheless, complain of private theft, and hang by dozens the thieves they have taught by their own example.

It is high time, for the sake of humanity, that a stop was put to this enormity. The United States of America, though better situated than any European nation to make profit by privateering (most of the trade of Europe, with the West Indies, passing before their doors) are, as far as in them lies, endeavouring to abolish the practice, by offering, in all their treaties with other powers, an article, engaging

solemnly, that, in case of future war, no privateer shall be commissioned on either side; and that unarmed merchant ships, on both sides, shall pursue their voyages unmolested. This will be a happy improvement of the law of nations. The humane and the just cannot but wish general success to the proposition.

With unchangeable esteem and affection,  
I am, my dear friend,  
Ever your's

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*Remarks concerning the Savages of North America.*

Printed in the year 1784.

Savages we call them, because their manners differ from ours, which we think the perfection of civility: they think the same of their's.

Perhaps, if we could examine the manners of different nations with impartiality, we should find no people so rude, as to be without any rules of politeness; nor any so polite, as not to have some remains of rudeness.

The Indian men, when young, are hunters and warriors; when old, counsellors; for all their government is by the council or advice of the sages; there is no force, there are no prisons, no officers to compel obedience, or inflict punishment. Hence they generally study oratory, the best speaker having the most influence. The Indian women till the ground, dress the food, nurse and bring up the children, and preserve and hand down to posterity the memory of public transactions. These employments of men and women are accounted natural and honourable. Having few artifical wants, they have abundance of leisure for improvement by conversation. Our laborious manner of life, compared with their's, they esteem slavish and base; and the learning on which we value ourselves, they regard as

frivolous and useless. An instance of this occurred at the treaty of Lancaster, in Pennsylvania, anno 1744, between the government of Virginia and the Six Nations. After the principal business was settled, the commissioners from Virginia acquainted the Indians by a speech, that there was at Williamsburg a college, with a fund, for educating Indian youth; and that if the chiefs of the Six Nations would send down half a dozen of their sons to that college, the government would take care that they should be well provided for, and instructed in all the learning of the white people. It is one of the Indian rules of politeness, not to answer a public proposition the same day that it is made: they think it would be treating it as a light matter, and that they show it respect by taking time to consider, as of a matter important. They therefore deferred their answer till the day following; when their speaker began by expressing their deep sense of the kindness of the Virginia government, in making them that offer; "for we know," says he, "that you highly esteem the kind of learning taught in those colleges, and that the maintenance of our young men, while with you, would be very expensive to you. We are convinced, therefore, that you mean to do us good by your proposal; and we thank you heartily. But you, who are wise, must know, that different nations have different conceptions of things; and you will therefore not take it amiss, if our ideas of this kind of education happen not to be the same with your's. We have had some experience of it: several of our young people were formerly brought up at the colleges of the northern provinces; they were instructed in all your sciences; but when they came back to us, they were bad runners, ignorant of every means of living in the woods, unable to bear either cold or hunger, knew neither how to build a cabin, take a deer, or kill an enemy, spoke our language imperfectly, were therefore neither fit or hunters, warriors or counsellors; they were to-

tally good for nothing. We are however not the less obliged by your kind offer, though we decline accepting it; and to shew our grateful sense of it, if the gentlemen of Virginia will send us a dozen of their sons, we will take great care of their education, instruct them in all we know, and make *men* of them."

Having frequent occasions to hold public councils, they have acquired great order and decency in conducting them. The old men sit in the foremost ranks, the warriors in the next, and the women and children in the hindmost. The business of the women is to take exact notice of what passes, imprint it in their memories, for they have no writing, and communicate it to their children. They are the records of the council, and they preserve tradition of the stipulation in treaties a hundred years back; which, when we compare with our writings, we always find exact. He that would speak, rises, the rest observe a profound silence. When he has finished and sits down, they leave him five or six minutes to recollect, that, if he has omitted any thing he intended to say, or has any thing to add, he may rise again and deliver it. To interrupt another, even in common conversation, is reckoned highly indecent. How different this is from the conduct of a polite British House of Commons, where scarce a day passes without some confusion, that makes the speaker hoarse in calling *to order*; and how different from the mode of conversation in many polite companies of Europe, where, if you do not deliver your sentence with great rapidity, you are cut off in the middle of it by the impatient loquacity of those you converse with, and never suffered to finish it!

The politeness of these savages in conversation is indeed carried to excess, since it does not permit them to contradict or deny the truth of what is inserted in their presence. By this means they indeed avoid disputes; but then it becomes difficult to know their minds, or what impression

you make upon them. The missionaries who have attempted to convert them to Christianity, all complain of this as one of the great difficulties of their mission. The Indians hear with great patience the truths of the gospel explained to them, and give their usual tokens of assent and approbation; you would think they were convinced. No such matter. It is merely civility.

A Swedish minister, having assembled the chiefs of the Sasquehannah Indians, made a sermon to them, acquainting them with the principal historical facts on which our religion is founded; such as the fall of our first parents by eating an apple, the coming of Christ to repair the mischief, his miracles and suffering, &c. When he had finished, an Indian orator stood up to thank him. "What you have told us," says he, "is all very good. It is indeed bad to eat apples. It is better to make them all into cyder. We are much obliged by your kindness in coming so far, to tell those things which you have heard from your mothers. In return, I will tell you some of those we have heard from ours."

"In the beginning, our fathers had only the flesh of animals to subsist on, and if their hunting was unsuccessful, they were starving. Two of our young hunters having killed a deer, made a fire in the woods to broil some parts of it. When they were about to satisfy their hunger, they beheld a beautiful young woman descend from the clouds and seat herself on that hill which you see yonder among the Blue Mountains. They said to each other, it is a spirit that perhaps has smelt our broiling venison, and wishes to eat of it: let us offer some to her. They presented her with the tongue: she was pleased with the taste of it, and said, Your kindness shall be rewarded. Come to this place after thirteen moons, and you shall find something that will be of great benefit in nourishing you and your children to the latest generations. They did so, and to

their surprise, found plants they had never seen before, but which, from that ancient time, have been constantly cultivated among us, to our great advantage. Where her right hand had touched the ground, they found maize ; where her left hand had touched it, they found kidney-beans ; and where her backside had sat on it, they found tobacco." The good missionary, disgusted with this idle tale, said, " What I have delivered to you were sacred truths, but what you tell me is mere fable, fiction, and falsehoods." The Indian, offended, replied, " My brother, it seems your friends have not done you justice in your education ; they have not well instructed you in the rules of common civility. You saw that we, who understand and practise those rules, believed all your stories, why do you refuse to believe ours ?"

When any of them come into our towns, our people are apt to crowd round them, gaze upon them, and incommodate them where they desire to be private ; this they esteem great rudeness, and the effect of the want of instruction in the rules of civility and good manners. " We have," say they, " as much curiosity as you, and when you come into our towns, we wish for opportunities of looking at you ; but for this purpose we hide ourselves behind bushes, where you are to pass, and never intrude ourselves into your company."

Their manner of entering one another's villages has likewise its rules. It is reckoned uncivil in travelling strangers to enter a village abruptly, without giving notice of their approach. Therefore, as soon as they arrive within hearing, they stop and halloo, remaining there till invited to enter. Two old men usually come out to them, and lead them in. There is in every village a vacant dwelling, called the strangers' house. Here they are placed, while the old men go round from hut to hut, acquainting the inhabitants, that strangers are arrived who are probably hungry and

weary ; and every one sends them what he can spare of victuals, and skins to repose on. When the strangers are refreshed, pipes and tobacco are brought : and then, but not before, conversation begins, with inquiries who they are, whither bound, what news, &c. and it usually ends with offers of service, if the strangers have occasion for guides, or any necessaries for continuing their journey ; and nothing is exacted for the entertainment.

The same hospitality, esteemed among them as a principal virtue, is practised by private persons ; of which *Conrad Weiser*, our interpreter, gave me the following instance. He had been naturalized among the Six Nations, and spoke well the Mohuek language. In going through the Indian country, to carry a message to our governor to the council at Onondago, he called at the habitation of Canassetego, an old acquaintance, who embraced him, spread furs for him to sit on, and placed before him some boiled beans and venison, and mixed some rum and water for his drink. When he was well refreshed, and had lit his pipe, Canassetego began to converse with him : asked how he had fared the many years since they had seen each other, whence he then came, what occasioned the journey, &c. Conrad answered all his questions ; and when the discourse began to flag, the Indian, to continue it, said, "Conrad, you have lived long among the white people, and know something of their customs ; I have been sometimes at Albany, and have observed, that once in seven days they shut up their shops, and assemble all in the great house ; tell me what it is for ? What do they do there ?" "They meet there," says Conrad, "to hear and learn good things." "I do not doubt," says the Indian, "that they tell you so ; they have told me the same : but I doubt the truth of what they say, and I will tell you my reasons. I went lately to Albany to sell my skins and buy blankets, knives, powder, &c. You know I used generally to

deal with Hans Hanson ; but I was a little inclined this time to try some other merchants. However, I called first upon Hans, and asked him what he would give for beaver. He said he could not give more than four shillings a pound. ‘but,’ says he, ‘I cannot talk on business now ; this is the day when we meet together to learn *good things*, and I am going to the meeting.’ So I thought to myself, since I cannot do any business to-day, I may as well go to the meeting too, and I went with him. There stood up a man in black, and began to talk to the people very angrily. I did not understand what he said ; but perceiving that he looked much at me and at Hanson, I imagined he was angry at seeing me there ; so I went out, sat down near the house, struck a fire, and lit my pipe, waiting till the meeting should break up. I thought too, that the man had mentioned something of beaver, and I suspected it might be the subject of their meeting. So when they came out I accosted my merchant. ‘Well, Hans,’ says I, ‘I hope you have agreed to give more than four shillings a pound.’ ‘No,’ says he, ‘I cannot give so much, I cannot give more than three shillings and sixpence.’ I then spoke to several other dealers, but they all sung the same song, three and sixpence, three and sixpence. This made it clear to me that my suspicion was right ; and that whatever they pretended of meeting to learn *good things*, the real purpose was to consult how to cheat Indians in the price of beaver. Consider but a little, Conrad, and you must be of my opinion. If they met so often to learn *good things*, they would certainly have learned some before this time. But they are still ignorant. You know our practice. If a white man, in travelling through our country, enters one of our cabins, we all treat him as I do you ; we dry him if he is wet, we warm him if he is cold ; and give him meat and drink, that he may allay his thirst and hunger : and we spread soft furs for him to rest and sleep on : we demand

nothing in return.\* But if I go into a white man's house at Albany, and ask for victuals and drink, they say, Where is your money? and if I have none, they say, Get out you Indian dog. You see they have not learned those little good things, that we need no meetings to be instructed in, because our mothers taught them to us when we were children; and therefore it is impossible their meetings should be, as they say, for any such purpose, or have any such effect; they are only to contrive *the cheating of Indians in the price of beaver*"

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*The Internal State of America ; being a true Description  
of the Interest and Policy of that vast Continent—1784.*

There is a tradition, that, in the planting of New England, the first settlers met with many difficulties and hardships; as is generally the case when a civilized people attempt establishing themselves in a wilderness country. Being piously disposed, they sought relief from Heaven by laying their wants and distresses before the Lord, in fre-

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\* It is remarkable, that in all ages and countries, hospitality has been allowed as the virtue of those whom the civilized were pleased to call Barbarians. The Greeks celebrated the Scythians for it, the Saracens possessed it eminently; and it is to this day the reigning virtue of the wild Arabs. St. Paul too, in the relation of his voyage and shipwreck, on the island of Melita, says, "the barbarous people shewed us no little kindness; for they kindled a fire, and received us every one, because of the present rain, and because of the cold."

quent set days of fasting and prayer. Constant meditation and discourse on these subjects kept their minds gloomy and discontented; and, like the children of Israel, there were many disposed to return to that Egypt, which persecution had induced them to abandon. At length, when it was proposed in the assembly to proclaim another fast, a farmer of plain sense rose, and remarked, that the inconveniences they suffered, and concerning which they had so often wearied heaven with their complaints, were not so great as they might have expected, and were diminishing every day as the colony strengthened; that the earth began to reward their labour, and to furnish liberally for their subsistence; that the seas and rivers were found full of fish, the air sweet, the climate healthy; and, above all, that they were there in the full enjoyment of liberty, civil and religious: he therefore thought, that reflecting and conversing on these subjects would be more comfortable, as tending more to make them contented with their situation; and that it would be more becoming the gratitude they owed to the Divine Being, if, instead of a fast, they should proclaim a thanksgiving. His advice was taken; and from that day to this they have in every year observed circumstances of public felicity sufficient to furnish employment for a thanksgiving day; which is therefore constantly ordered and religiously observed.

I see in the public newspapers of different states frequent complaints of *hard times, deadness of trade, scarcity of money, &c. &c.* It is not my intention to assert or maintain, that these complaints are entirely without foundation. There can be no country or nation existing, in which there will not be some people so circumstanced, as to find it hard to gain a livelihood; people who are not in the way of any profitable trade, and with whom money is scarce, because they have nothing to give in exchange for it; and it is always in the power of a small number to make

great clamour. But let us take a cool view of the general state of our affairs, and perhaps the prospect will appear less gloomy than has been imagined.

The great business of the continent is agriculture. For one artisan, or merchant, I suppose, we have at least one hundred farmers, by far the greatest part cultivators of their own fertile lands, from whence many of them draw not only food necessary for their subsistence, but the materials of their clothing, so as to need very few foreign supplies; while they have a surplus of productions to dispose of wherby wealth is gradually accumulated. Such has been the goodness of Divine Providence to these regions, and so favourable the climate, that, since the three or four years of hardship in the first settlement of our fathers here, famine or scarcity has never been heard of amongst us: on the contrary, though some years may have been more, and others less plentiful, there has always been provision enough for ourselves, and a quantity to spare for exportation. And although the crops of last year were generally good, never was the farmer better paid for the part he can spare commerce, as the published price currents abundantly testify. The lands he possesses are also continually rising in value with the increase of population; and, on the whole, he is enabled to give such good wages to those who work for him, that all who are acquainted with the old world must agree, that in no part of it are the labouring poor so generally well fed, well clothed, well lodged, and well paid as in the United States of America.

If we enter the cities, we find, that since the revolution the owners of houses and lots of ground have had their interest vastly augmented in value; rents have risen to an astonishing height, and thence encouragement to increase building, which gives employment to an abundance of workmen, as does also the increased luxury and splendour a living of the inhabitants, thus made richer. These work-

men all demand and obtain much higher wages than any other part of the world would afford them, and are paid in ready money. This rank of people therefore do not, or ought not, to complain of hard times; and they make a very considerable part of the city inhabitants.

At the distance I live from our American fisheries, I cannot speak of them with any degree of certainty; but I have not heard, that the labour of the valuable race of men employed in them is worse paid, or that they meet with less success, than before the revolution. The whale men indeed have been deprived of one market for their oil; but another, I hear, is opening for them, which it is hoped may be equally advantageous; and the demand is constantly increasing for their spermaceti candles, which therefore bear a much higher price than formerly.

There remain the merchants and shopkeepers. Of these, though they make but a small part of the whole nation, the number is considerable, too great indeed for the business they are employed in; for the consumption of goods in every country has its limits; the faculties of the people, that is, their ability to buy and pay, being equal only to a certain quantity of merchandize. If merchants calculate amiss on this proportion, and import too much, they will of course find the sale dull for the overplus, and some of them will say, that trade languishes. They should, and doubtless will, grow wiser by experience, and import less. If too many artificers in town, and farmers from the country, flattering themselves with the idea of leading easier lives, turn shopkeepers, the whole natural quantity of that business divided among them all may afford too small a share for each, and occasion complaints, that trading is dead; these may also suppose, that it is owing to scarcity of money, while, in fact, it is not so much from the fewness of buyers, as from the excessive number of sellers, that the mischief arises; and, if every shopkeeping farmer and me-

chanic would return to the use of his plough and working tools, there would remain of widows and other women, shopkeepers sufficient for the business, which might then afford them a considerable maintenance.

Whoever has travelled through the various parts of Europe, and observed how small is the proportion of people in affluence or easy circumstances there, compared with those in poverty and misery; the few rich and haughty landlords, the multitude of poor, abject, rack-rented, tythe-paying tenants, and half-paid and half-starved ragged labourers; and views here the happy mediocrity that so generally prevail throughout these states, where the cultivator works for himself, and supports his family in decent plenty, will, methinks, see abundant reason to bless Divine Providence for the evident and great difference in our favour, and be convinced that no nation known to us enjoys a greater share of human felicity.

It is true, that in some of the states there are parties and discords; but let us look back, and ask if we were ever without them? Such will exist wherever there is liberty; and perhaps they help to preserve it. By the collision of different sentiments, sparks of truth are struck out, and political light is obtained. The different factions, which at present divide us, aim all at the public good; the differences are only about the various modes of promoting it. Things, actions, measures, and objects of all kinds, present themselves to the minds of men in such a variety of lights, that it is not possible we should all think alike at the same time on every subject, when hardly the same man retains at all times the same ideas of it. Parties are therefore the common lot of humanity: and ours are by no means more mischievous or less beneficial than those of other countries, nations, and ages, enjoying in the same degree the great blessing of political liberty.

Some indeed among us are not so much grieved for the

present state of our affairs, as apprehensive for the future. The growth of luxury alarms them, and they think we are from that alone in the high road to ruin. They observe, that no revenue is sufficient without economy, and that the most plentiful income of a whole people from the natural productions of their country may be dissipated in vain and needless expenses, and poverty be introduced in the place of affluence. This may be possible. It however rarely happens ; for there seems to be in every nation a greater proportion of industry and frugality, which tend to enrich, than of idleness and prodigality, which occasion poverty : so that upon the whole there is a continual accumulation. Reflect what Spain, Gaul, Germany, and Britain were in the time of the Romans, inhabited by a people little richer than our savages, and consider the wealth they at present possess, in numerous well-built cities, improved farms, rich moveable magazines stocked with valuable manufactures, to say nothing of plate, jewels, and coined money ; and all this, notwithstanding their bad, wasteful, plundering governments, and their mad destructive wars ; and yet luxury and extravagant living has never suffered much restraint in those countries. Then consider the great proportion of industrious frugal farmers inhabiting the interior parts of these American states, and of whom the body of our nation consists, and judge whether it is possible, that the luxury of our sea-ports can be sufficient to ruin such a country.— If the importation of foreign luxuries could ruin a people, we should probably have been ruined long ago ; for the British nation claimed a right and practised it, of importing among us not only the superfluities of their own production, but those of every nation under Heaven ; we bought and consumed them, and yet we flourished, and grew rich. At present our independent governments may do what we could not then do, discourage by heavy duties, or prevent by heavy prohibitions, such importations, and

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thereby grow richer ; if, indeed, which may admit of dispute, the desire of adorning ourselves with fine clothes, possessing fine furniture, with elegant houses, &c. is not by strongly inciting to labour and industry, the occasion of producing a greater value than is consumed in the gratification of that desire.

The agriculture and fisheries of the United States are the great sources of our increasing wealth. He that puts a seed into the earth is recompensed, perhaps, by receiving forty out of it ; and he who draws a fish out of our water, draws up a piece of silver.

Let us (and there is no doubt but we shall) be attentive to these, and then the power of rivals, with all their restraining and prohibiting acts, cannot much hurt us. We are sons of the earth and seas, and, like Antæus in the fable, if, in wrestling with a Hæcules, we now and then receive a fall, the touch of our parents will communicate to us fresh strength and vigour to renew the contest.

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*Information to those who would remove to America.—  
1784.*

Many persons in Europe having directly, or by letters, expressed to the writer of this, who is well acquainted with North America, their desire of transporting and establishing themselves in that country ; but who appear to him to have formed through ignorance, mistaken ideas and expectations of what is to be obtained there ; he thinks it may be useful, and prevent inconvenient, expensive, and fruitless removals and voyages of improper persons, if he gives some clearer and truer notions of that part of the world than appear to have hitherto prevailed.

He finds it is imagined by numbers, that the inhabitants

of North America are rich, capable of rewarding, and disposed to reward, all sorts of ingenuity ; that they are at the same time ignorant of all the sciences, and consequently, that strangers, possessing talents in the belles-lettres, fine arts, &c. must be highly esteemed, and so well paid, as to become easily rich themselves ; that there are also abundance of profitable offices to be disposed of, which the natives are not qualified to fill ; and that, having few persons of family among them, strangers of birth must be greatly respected, and of course easily obtain the best of those offices, which will make all their fortunes : that the governments too, to encourage emigrations from Europe, not only pay the expense of personal transportation, but give lands gratis to strangers, with negroes to work for them, utensils of husbandry, and stocks of cattle. These are all wild imaginations ; and those who go to America with expectations founded upon them will surely find themselves disappointed.

The truth is, that though there are in that country few people so miserable as the poor of Europe, there are also very few that in Europe would be called rich ; it is rather a general happy mediocrity that prevails. There are few great proprietors of the soil, and few tenants ; most people cultivate their own lands, or follow some handicraft or merchandise ; very few rich enough to live idly upon their rents or incomes, or to pay the high prices given in Europe for painting, statutes, architecture, and other works of art, that are more curious than useful. Hence the natural geniuses that have arisen in America with such talents, have uniformly quitted that country for Europe, where they can be more suitably rewarded. It is true, that letters and mathematical knowledge are in esteem there, but they are at the same time more common than is apprehended ; there being already existing nine colleges or universities, viz. four in New England, and one in each of the

provinces of New York; New Jersey, Pennsylvania, Maryland, and Virginia, all furnished with learned professors, besides a number of smaller academies: these educate many of their youth in the languages, and those sciences that qualify man for the professions of divinity, law, or physic. Strangers indeed are by no means excluded from exercising those professions; and the quick increase of inhabitants every where gives them a chance of employ, which they have in common with the natives. Of civil officers, or employments, there are few; no superfluous ones, as in Europe; and it is a rule established in some of the states, that no office should be so profitable as to make it desirable. The thirty-sixth article of the constitution of Pennsylvania runs expressly in these words: "As every freeman, to preserve his independence (if he has not a sufficient estate) ought to have some profession, calling, trade, or farm, whereby he may honestly subsist, there can be no necessity for, nor use, in establishing offices of profit; the usual effects of which are dependence and servility, unbecoming freemen, in the possessors and expectants; faction, contention, corruption, and disorder among the people. Wherefore, whenever an office, through increase of fees or otherwise, becomes so profitable, as to occasion many to apply for it, the profits ought to be lessened by the legislature."

These ideas prevailing more or less in all the United States, it cannot be worth any man's while, who has a means of living at home to expatriate himself, in hopes of obtaining a profitable civil office in America; and as to military offices, they are at an end with the war, the armies being disbanded. Much less is it adviseable for a person to go thither who has no other quality to recommend him but his birth. In Europe it has indeed its value; but it is a commodity that cannot be carried to a worse market than to that of America, where people do not inquire concerning

a stranger, *What is he?* but, *What can he do?* If he has any useful art, he is welcome; and if he exercises it, and behaves well, he will be respected by all that know him; but a mere man of quality, who on that account wants to live upon the public by some office or salary, will be despised and disregarded. The husbandman is in honour there, and even the mechanic, because their employments are useful. The people have a saying, that God Almighty is himself a mechanic, the greatest in the universe; and he is respected and admired more for the variety, ingenuity, and utility of handy works, than for the antiquity of his family. They are pleased with the observation of a negro, and frequently mention it, that Boccarora (meaning the white man) make de black man workee, make de horse workee, make de ox workee, make ebry ting workee, only de hog. He de hog no workee, he eat, he drink, he walk about, he go to sleep when he please, he libb like a gentleman. According to these opinions of the Americans, one of them would think himself more obliged to a genealogist, who could prove for him that his ancestors and relations for ten generations had been ploughmen, smiths, carpenters, turners, weavers, tanners, or even shoemakers, and consequently that they were useful members of society; than if they could only prove that they were gentlemen, doing nothing of value, but living idly on the labour of others, mere *fruges consumere nati*,\* and otherwise *good for nothing*, till by their death their estates, like the carcase of the negro's gentleman-hog, come to be *cut up*.

With regard to encouragements for strangers from government, they are really only what are derived from good

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\* . . . . . born  
Merely to eat up the corn. *Watts.*

laws and liberty. Strangers are welcome, because there is room enough for them all, and therefore the old inhabitants are not jealous of them; the laws protect them sufficiently, so that they have no need of the patronage of great men; and every one will enjoy securely the profits of his industry. But if he does not bring a fortune with him, he must work and be industrious to live. One or two years residence give him all the rights of a citizen; but the government does not at present, whatever it may have done in former times, hire people to become settlers, by paying their passages, giving land, negroes, utensils, stock, or any other kind of emolument whatsoever. In short, America is the land of labour, and by no means what the English call Lubberland, and the French Pays de Cocagne, where the streets are said to be paved with half-peck loaves, the houses tiled with pancakes, and where the fowls fly about ready roasted, crying, *Come eat me!*

Who then are the kind of persons to whom an emigration to America may be advantageous? And what are the advantages they may reasonably expect?

Land being cheap in that country, from the vast forests still void of inhabitants, and not likely to be occupied in an age to come, insomuch that the propriety of an hundred acres of fertile soil full of wood may be obtained near the frontiers, in many places, for eight or ten guineas, hearty young labouring men, who understand the husbandry of corn and cattle, which is nearly the same in that country as in Europe, may easily establish themselves there. A little money saved of the good wages they receive there, while they work for others, enables them to buy the land and begin their plantation, in which they are assisted by the good will of their neighbours, and some credit. Multitudes of poor people from England, Ireland, Scotland, and Germany, have by this means in a few years become wealthy farmers, who, in their own countries, where all the lands

are fully occupied, and the wages of labour low, could never have emerged from the mean condition wherein they were born.

From the salubrity of the air, the healthiness of the climate, the plenty of good provisions, and the encouragement to early marriages, by the certainty of subsistence in cultivating the earth, the increase of inhabitants by natural generation is very rapid in America, and becomes still more so by the accession of strangers; hence there is a continual demand for more artizans of all the necessary and useful kinds, to supply those cultivators of the earth with houses, and with furniture and utensils of the grosser sorts, which cannot so well be brought from Europe. Tolerably good workmen in any of those mechanic arts are sure to find employ, and to be well paid for their work, there being no restraints preventing strangers from exercising any art they understand, nor any permission necessary. If they are poor, they begin first as servants or journeymen; and if they are sober, industrious, and frugal, they soon become masters, establish themselves in business, marry, raise families, and become respectable citizens.

Also, persons of moderate fortunes and capitals, who, having a number of children to provide for, are desirous of bringing them up to industry, and to secure estates for their posterity, have opportunities of doing it in America, which Europe does not afford. There they may be taught and practise profitable mechanic arts, without incurring disgrace on that account, but, on the contrary, acquiring respect by such abilities. There small capitals laid out in lands, which daily become more valuable by the increase of people, afford a solid prospect of ample fortunes thereafter for those children. The writer of this has known several instances of large tracts of land, bought, on what was then the frontier of Pennsylvania, for ten pounds per hundred acres, which, when the settlements had been extended far

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beyond them, sold readily, without any improvement made upon them, for three pounds per acre. The acre in America is the same with the English acre, or the acre of Normandy.

Those, who desire to understand the state of government in America, would do well to read the constitutions of the several states, and the articles of confederation that bind the whole together for general purposes, under the direction of one assembly, called the congress. These constitutions have been printed, by order of congress, in America; two editions of them have also been printed in London; and a good translation of them into French has lately been published at Paris.

Several of the princes of Europe of late, from an opinion of advantage to arise by producing all commodities and manufactures within their own dominions, so as to diminish or reader useless their importations, have endeavoured to entice workmen from other countries, by high salaries, privileges, &c. Many persons, pretending to be skilled in various great manufactures, imagining, that America must be in want of them, and that the congress would probably be disposed to imitate the princes above mentioned, have proposed to go over, on condition of having their passages paid, lands given, salaries appointed, exclusive privileges for terms of years, &c. Such persons, on reading the articles of confederation, will find, that the congress have no power committed to them, or money put into their hands, for such purposes; and that if any such encouragement is given, it must be by the government of some separate state. This, however, has rarely been done in America; and when it has been done, it has rarely succeeded, so as to establish a manufacture, which the country was not yet so ripe for as to encourage private persons to set it up; labour being generally too dear there, and hands difficult to be kept together, every one desiring to be a master, and

the cheapness of land inclining many to leave trades for agriculture. Some indeed have met with success, and are carried on to advantage: but they are generally such as require only a few hands, or wherein great part of the work is performed by machines. Goods that are bulky, and of so small value as not well to bear the expense of freight, may often be made cheaper in the country than they can be imported; and the manufacture of such goods will be profitable wherever there is a sufficient demand. The farmers in America produce indeed a good deal of wool and flax: and none is exported, it is all worked up; but it is in the way of domestic manufacture, for the use of the family. The buying up quantities of wool and flax, with the design to employ spinners, weavers, &c. and form great establishments, producing quantities of linen and woollen goods for sale, has been several times attempted in different provinces; but those projects have generally failed, goods of equal value being imported cheaper. And when the governments have been solicited to support such schemes by encouragements, in money, or by imposing duties on importation of such goods, it has been generally refused, on this principle, that if the country is ripe for the manufacture, it may be carried on by private persons to advantage; and if not, it is a folly to think of forcing nature. Great establishments of manufacture require great numbers of poor to do the work for small wages; those poor are to be found in Europe, but will not be found in America, till the lands are all taken up and cultivated, and the excess of people, who cannot get land, want employment. The manufacture of silk, they say, is natural in France, as that of cloth in England, because each country produces in plenty the first material: but if England will have a manufacture of silk as well as that of cloth, and France of cloth as well as that of silk, these unnatural operations must be supported by mutual prohibitions, or

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high duties on the importation of each other's goods; by which means the workmen are enabled to tax the home consumer by greater prices, while the higher wages they receive makes them neither happier nor richer, since they only drink more and work less. Therefore the governments in America do nothing to encourage such projects. The people, by this means, are not imposed on either by the merchant or mechanic: if the merchant demands too much profit on imported shoes, they buy of the shoe-maker; and if he asks too high a price, they take them of the merchant: thus the two professions are checks on each other. The shoemaker, however, has on the whole, a considerable profit upon his labour in America, beyond what he had in Europe, as he can add to his price a sum nearly equal to all the expenses of freight and commission, risque or insurance, &c. necessarily charged by the merchant. And the case is the same with the workmen in every other mechanic art. Hence it is, that artisans generally live better and more easily in America than in Europe; and such as are good economists make a comfortable provision for age, and for their children. Such may, therefore, remove with advantage to America.

In the old long-settled countries of Europe, all arts, trades, professions, farms, &c. are so full, that it is difficult for a poor man who has children to place them where they may gain, or learn to gain, a decent livelihood. The artizans, who fear creating future rivals in business, refuse to take apprentices, but upon conditions of money, maintenance, or the like, which the parents are unable to comply with. Hence the youth are dragged up in ignorance of every gainful art, and obliged to become soldiers, or servants, or thieves, for subsistence. In America, the rapid increase of inhabitants takes away that fear of rivalship, and artizans willingly receive apprentices from the hope of profit by their labour, during the remainder of the time stipu-

lated, after they shall be instructed. Hence it is easy for poor families to get their children instructed; for the artizans are so desirous of apprentices, that many of them will even give money to the parents, to have boys from ten to fifteen years of age bound apprentices to them, till the age of twenty-one; and many poor parents have, by that means, on their arrival in the country, raised money enough to buy land sufficient to establish themselves, and to subsist the rest of their family by agriculture. These contracts for apprentices are made before a magistrate, who regulates the agreement according to reason and justice, and, having in view the formation of a future useful citizen, obliges the master to engage by a written indenture, not only that, during the time of service stipulated, the apprentice shall be duly provided with meat, drink, apparel, washing, and lodging, and at its expiration with a complete new suit of clothes, but also, that he shall be taught to read, write, and cast accounts; and that he shall be well instructed in the art or profession of his master, or some other, by which he may afterwards gain a livelihood, and be able in his turn to raise a family. A copy of this indenture is given to the apprentice or his friends, and the magistrate keeps a record of it, to which recourse may be had, in case of failure by the master in any point of performance. This desire among the masters, to have more hands employed in working for them, induces them to pay the passages of young persons, of both sexes, who, on their arrival, agree to serve them one, two, three, or four years; those who have already learned a trade, agreeing for a shorter term, in proportion to their skill, and the consequent immediate value of their service; and those who have none, agreeing for a longer term, in consideration of being taught an art their poverty would not permit them to acquire in their own country.

The almost general mediocrity of fortune that prevails

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in America, obliging its people to follow some business for subsistence, those vices, that arise usually from idleness, are in a great measure prevented. Industry and constant employment are great preservatives of the morals and virtues of a nation. Hence, bad examples to youth are more rare in America, which must be a comfortable consideration to parents. To this may be truly added, that serious religion, under its various denominations, is not only tolerated, but respected and practised. Atheism is unknown there; infidelity rare and secret; so that persons may live to a great age in that country, without having their piety shocked by meeting with either an atheist or an infidel. And the Divine Being seems to have manifested his approbation of the mutual forbearance and kindness with which the different sects treat each other, by the remarkable prosperity with which he has been pleased to favour the whole country.

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TO THE EARL OF BUCHAN.

*Concerning new Settlements in America.*

My Lord,

*Passy, March 17, 1783.*

I received the letter your lordship did me the honour of writing to me the 18th past, and am much obliged by your kind congratulations on the return of peace, which I hope will be lasting.

With regard to the terms on which lands may be acquired in America, and the manner of beginning new settlements on them, I cannot give better information than may be found in a book lately printed at London, under some such title, as—*Letters from a Pennsylvania Farmer*, by Hector St. John. The only encouragement we hold out to strangers are, *a good climate, fertile soil, wholesome air*

*and water, plenty of provisions and food, good pay for labour, kind neighbours, good laws, and a hearty welcome.* The rest depends on a man's own industry and virtue. Lands are cheap, but they must be bought. All settlements are undertaken at private expense; the public contributes nothing but defence and justice. I have long observed of your people, that their sobriety, frugality, industry, and honesty, seldom fail of success in America, and of procuring them a good establishment among us.

I do not recollect the circumstance you are pleased to mention, of my having saved a citizen at St. Andrew's by giving a turn to his disorder; and I am curious to know, what the disorder was, and what the advice I gave, that proved so salutary.\* With great regard I have the honour to be, my lord, your lordship's most obedient and most humble servant,

B. FRANKLIN

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*A Comparison of the Conduct of the Ancient Jews, and of  
the Antifederalists in the United States of America.*

A zealous advocate for the proposed federal constitution in a certain public assembly said, that "the repugnance of a great part of mankind of good government was such, that he believed, that if an angel from heaven was to bring down a constitution, formed there for our use, it would nevertheless meet with violent opposition." He was reproved for

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\* It was a fever in which the Earl of Buchan, then Lord Cadross, lay sick at St. Andrew's; and the advice was, not to blister, according to the old practice and the opinion of the learned Dr. Simson, brother of the celebrated geometricalian at Glasgow.

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the supposed extravagance of the sentiment, and he did not justify it. Probably it might not have immediately occurred to him, that the experiment had been tried, and that the event was recorded in the most faithful of all histories, the Holy Bible; otherwise he might, as it seems to me, have supported his opinion by that unexceptionable authority.

The Supreme Being had been pleased to nourish up a single family, by continued acts of his attentive providence, till it became a great people: and having rescued them from bondage by many miracles, performed by his servant Moses, he personally delivered to that chosen servant, in presence of the whole nation, a constitution and code of laws for their observance, accompanied and sanctioned with promises of great rewards, and threats of severe punishments, as the consequence of their obedience or disobedience.

This constitution, though the Deity himself was to be at its head, (and it is therefore called by political writers a theocracy) could not be carried into execution but by the means of his ministers: Aaron and his sons were therefore commissioned to be, with Moses, the first established ministry of the new government.

One would have thought, that the appointment of men, who had distinguished themselves in procuring the liberty of their nation, and had hazarded their lives in openly opposing the will of a powerful monarch, who would have retained that nation in slavery, might have been an appointment acceptable to a grateful people; and that a constitution, framed for them by the Deity himself, might on that account have been secure of an universal welcome reception. Yet there were, in every one of the thirteen tribes, some discontented, restless spirits, who were continually exciting them to reject the proposed new government, and this from various motives.

Many still retained an affection for Egypt, the land of their nativity, and these, whenever they felt any inconvenience or hardship, though the natural and unavoidable effect of their change of situation, exclaimed against their leaders as the authors of their trouble: and were not only for returning into Egypt, but for stoning their deliverers.\* Those inclined to idolatry were displeased that their golden calf was destroyed. Many of the chiefs thought the new constitution might be injurious to their particular interests, that the profitable places would be *engrossed by the families and friends of Moses and Aaron*, and others, equally well born, excluded †. In Josephus, and the Talmud, we learn some particulars, not so fully narrated in the Scripture. We are there told, "that Corah was ambitious of the priesthood, and offended that it was conferred on Aaron;" and this, as he said, by the authority of Moses only, *without the consent of the people*. He accused Moses of having, by various artifices, fraudulently obtained the government, and deprived the people of their liberties, and of conspiring with Aaron to perpetuate the tyranny in their family. Thus, though Corah's real motive was the supplanting of Aaron, he persuaded the people, that he meant only the public good: and they, moved by his insinuations, began to cry out, "Let us maintain the common liberty of our *respective tribes*; we have freed ourselves from the slavery imposed upon us by the Egyptians, and shall we suffer ourselves to be made slaves by Moses? If we must

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\* Numbers, chap. xiv.

† Numbers, chap. xvi. 3. "And they gathered themselves together against Moses and against Aaron, and said unto them, ye take too much upon you, seeing all the congregations are holy, every one of them,—wherefore then lift ye up yourselves above the congregation."

have a master, it were better to return to Pharaoh, who at least fed us with bread and onions, than to serve this new tyrant, who, by his operations, has brought us into danger of famine." Then they called in question the *reality of his conference* with God, and objected to the privacy of the meetings, and the preventing any of the people from being present at the colloquies, or even approaching the place, as grounds of great suspicion. They accused Moses also of *peculation*, as embezzling part of the golden spoons and the silver chargers, that the princes had offered at the dedication of the altar,\* and the offerings of gold by the common people,† as well as most of the poll-tax;‡ and Aaron they accused of pocketing much of the gold of which he pretended to have made a molten calf. Besides peculation, they charged Moses with *ambition*; to gratify which passion, he had, they said, deceived the people, by promising to bring them to a land flowing with milk and honey: instead of doing which, he had brought them *from* such a land; and that he thought light of all this mischief, provided he could make himself an *absolute prince*.|| That to support the new dignity with splendour in his family, the partial poll-tax, already levied and given to Aaron,§ was to be followed by a general one,¶ which would probably be augmented from time to time, if he were suffered to go on promulgating new laws, on pretence of new

\* Numbers, chap. vii.

† Exodus, chap. xxxv. ver. 22.

‡ Numbers, chap. iii. and Exodus, chap. xxx.

|| Numbers, chap. xvi. ver. 13. "Is it a small thing that thou hast brought us up out of a land, flowing with milk and honey, to kill us in this wilderness, except thou make thyself altogether a prince over us?"

§ Numbers, chap. iii.

¶ Exodus, chap. xxx

occasional revelations of the divine will, till their whole fortunes were devoured by that aristocracy.

Moses denied the charge of peculation, and his accusers were destitute of proofs to support it: though facts, if real, are in their nature capable of proof. "I have not," said he (with holy confidence in the presence of God), "I have not taken from this people the value of an ass, nor done them any other injury." But his enemies had made the charge, and with some success among the populace; for no kind of accusation is so readily made, or easily believed, by knaves, as the accusation of knavery.

In fine, no less than two hundred and fifty of the principal men, "famous in the congregation, men of renown,"\* heading and exciting the mob, worked them up to such a pitch of frenzy, that they called out, stone 'em, stone 'em, and thereby secure our liberties; and let us choose other captains, that may lead us back into Egypt, in case we do not succeed in reducing the Canaanites.

On the whole, it appears that the Israelites were a people jealous of their newly-acquired liberty, which jealousy was in itself no fault; but that, when they suffered it to be worked upon by artful men, pretending public good, with nothing really in view but private interest, they were led to oppose the establishment of the new constitution, whereby they brought upon themselves much inconvenience and misfortune. It rather appears, from the same inestimable history, that when, after many ages, the constitution had become old and much abused, and an amendment of it was proposed, the populace, as they had accused Moses of the ambition of making himself a prince, and cried out, stone him, stone him; so, excited by their high-priests and scribes, they exclaimed against the Messiah, that he aimed

\* Numbers, chap. xvi.

at becoming king of the Jews, and cried, Crucify him, crucify him. From all which we may gather, that popular opposition to a public measure is no proof of its impropriety, even though the opposition be excited and headed by men of distinction.

To conclude, I beg I may not be understood to infer, that our general convention was divinely inspired when it formed the new federal constitution, merely because that constitution has been unreasonably and vehemently opposed: yet, I must own, I have so much faith in the general government of the world by Providence, that I can hardly conceive a transaction of such momentous importance to the welfare of millions now existing, and to exist in the posterity of a great nation, should be suffered to pass without being in some degree influenced, guided, and governed by that omnipotent, omnipresent, and beneficent ruler, in whom all inferior spirits live, move, and have their being.

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*Final Speech of Dr. Franklin in the late Federal Convention.*

Mr. President.

I confess that I do not entirely approve of this constitution at present: but, Sir, I am not sure I shall never approve it; for having lived long, I have experienced many instances of being obliged, by better information, or fuller consideration, to change opinions, even on important subjects, which I once thought right, but found to be otherwise. It is, therefore, that, the older I grow, the more apt I am to doubt my own judgment, and to pay more respect to the judgment of others. Most men, indeed, as well as most sects in religion, think themselves in possession of all truth, and that whenever others differ from them, it is so

far error. Steel, a Protestant, in a dedication, tells the pope, that "the only difference between our two churches, in the opinions of the certainty of their doctrines, is, the Romish church is infallible, and the church of England never in the wrong." But, though many private persons think almost as highly of their own infallibility as of that of their sect, few express it so naturally as a certain French lady, who, in a little dispute with her sister, said, I don't know how it happens, sister, but I meet with nobody but myself that is always in the right. *Il n'y a que moi qui a toujours raison.* In these sentiments, Sir, I agree to this constitution, with all its faults, if they are such, because I think a general government necessary for us, and there is no form of government but what may be a blessing, if well administered; and I believe farther, that this is likely to be well administered for a course of years, and can only end in despotism, as other forms have done before it, when the people shall become so corrupted as to need despotic government, being incapable of any other. I doubt, too, whether any other convention we can obtain, may be able to make a better constitution. For when you assemble a number of men, to have the advantage of their joint wisdom, you inevitably assemble with those men, all their prejudices, their passions, their errors of opinion, their local interests, and their selfish views. From such an assembly can a perfect production be expected? It therefore astonishes me, Sir, to find this system approaching so near to perfection as it does; and I think it will astonish our enemies, who are waiting with confidence to hear, that our councils are confounded, like those of the builders of Babylon, and that our states are on the point of separation, only to meet hereafter for the purpose of cutting each other's throats.

Thus I consent, Sir, to this constitution, because I expect no better, and because I am not sure, that this is not

the best. The opinions I have had of its errors, I sacrifice to the public good. I have never whispered a syllable of them abroad. Within these walls they were born, and here they shall die. If every one of us, in returning to our constituents, were to report the objections he has had to it, and endeavour to gain partizans in support of them, we might prevent its being generally received, and thereby lose all the salutary effects and great advantages resulting naturally in our favour among foreign nations, as well as among ourselves, from our real or apparent unanimity. Much of the strength and efficiency of any government, in procuring and securing happiness to the people, depends on opinion, on the general opinion of the goodness of that government, as well as of the wisdom and integrity of its governors.

I hope, therefore, that for our own sakes, as part of the people, and for the sake of our posterity, we shall act heartily and unanimously in recommending this constitution, wherever our influence may extend, and turn our future thoughts and endeavours to the means of having it well administered.

On the whole, Sir, I cannot help expressing a wish, that every member of the convention, who may still have objections, would, with me, on this occasion, doubt a little of his own infallibility, and, to make manifest our unanimity, put his name to this instrument.

[The motion was then made for adding the last formula,  
viz.

Done in convention, by the unanimous consent, &c. which  
was agreed to, and added accordingly.]

*A Short but Comprehensive Account of all Arts and Sciences, Printed by Dr. Franklin in a Work called the American Instructor, and supposed to be written by himself, now first Published with his Works.*

*Alchymy*, is that sublime part of chemistry, which teaches the art of transmuting metals, and making the grand elixir, or philosopher's stone, as some are weak enough to believe. But the best definition of it is, that it is an art without art, which begins with lying, is carried on with labour, and ends with beggary.

*Algebra*, commonly called the analytic art, because it teaches how to resolve questions, and demonstrate theorems, by searching into the fundamental nature and frame of the thing. It is the science of quantity in general, or a peculiar method of reasoning, which takes the quantity sought, as if it were known, and then by the help of another, or more quantities given, proceeds by undeniable consequences, till at length the quantity first only supposed to be known, is found to be equal to some quantity or quantities certainly known.

*Anatomy*, is that art which teaches to dissect or take to pieces any animal body, in a curious and dexterous manner, in order to discover and explain the original, nature, and use, of its several parts, for the improvement of physic and natural philosophy.

*Architecture*, is the art of erecting edifices proper for habitation. The ancients have established five orders of architecture, called the Tuscan, the Doric, the Ionic, the Corinthian, and the Composite or Roman order, the difference between which orders consists in the column, with its base and capital, and the entablature, that is, the archi-

trave, frieze, and cornice; for these are the parts which constitute the order, and each one hath its proper and peculiar measures. The rules of architecture require solidity, convenience, and beauty. Solidity implies the choice of a good foundation, and good sound materials to work with. Convenience consists in so ordering and disposing the parts of an edifice, that they may not hinder or embarrass one another. Beauty is that due ranging and agreeable union and symmetry of all the parts, which, upon the whole, exhibits to the eye of the spectators a beautiful form and appearance. Architecture may likewise be divided into civil, military, and naval. Civil architecture teaches to contrive and erect commodious buildings for the uses of civil life; such as churches, palaces, and private houses. Military architecture shows the best way of raising fortifications about cities, towns, camps, sea-ports, &c. Naval architecture is employed about the building of ships, galleys, and other vessels for the water, together with ports, moles, docks, &c. on shore.

*Arithmetic*, is the art of numbering truly, and of finding all the properties and powers of numbers.

*Astrology*, is that foolish science which pretends to foretel future events from the motions of the heavenly bodies and their aspects one to another; or from some imaginary, hidden qualities, which the weak admirers of this cheat will have to be in the stars.

*Astronomy*, is a mathematical science, which teaches us the knowledge of the stars or heavenly bodies, viz. their magnitudes, distances, motions, and eclipses.

*Book-keeping*, is the art of keeping so distinctly all the transactions of a man's business, that he may know at any time the true state of his affairs with ease and certainty.

*Botany*, as it relates to the science of medicine, teaches to discover and enumerate the several virtues of plants and

simples. As it relates also to natural history, it teaches to distinguish the several kinds and species of plants, trees, shrubs, &c. one from another, and to give just descriptions of them.

*Chemistry* teaches how to separate the different substances that are found in mixed bodies, as animals, plants, or minerals, and to reduce them to their first principles.

*Chirology*, the art of dumb language, or a method of talking by signs made with the hands.

*Chirurgery*, or, as it is commonly written and pronounced, *Surgery*, is the third branch of the curative part of medicine, and teaches how several diseases and accidents, incident to the body of man, may be cured by manual operation. It is divided by some into five parts. 1. *Synthesis*, a setting together things that are separated. 2. *Diæresis*, a separating things that were before connected. 3. *Diorthosis*, a correcting of things squeezed together and contorted. 4. *Exæresis*, the taking away of superfluities. 5. *Anaplerosis*, the restoring of that which was deficient. It is a common saying, that a good surgeon should have an eagle's eye, a lion's heart, and a lady's hand.

*Chronology*, is the art of computing time from the creation of the world for historical uses, and preserving an account of remarkable transactions, so as to date truly the beginnings and the ends of reigns of princes, the revolutions of kingdoms and empires, signal battles, &c.

*Cosmography*, teaches to describe the whole frame of the universe, with the several parts thereof, according to their number, positions, motions, magnitudes, figures, &c. The sciences of astronomy and geography are comprehended in this.

*Dialling*, is the art of drawing lines on a given plane in such a manner as to show the hour of the day when the sun shines. *Papyrius Cursor* set up the first sun-dial in Rome,

about the year of the city 447: and before that, according to Pliny, there was no account of time, but the sun's rising and setting.

*Ethics*, is the science of morality, by which we are taught the rules and measures of human actions; the writers upon it usually divide it into two parts. The first contains an account of the nature of moral good and evil; the other enumerates the several virtues in which the practice and exercise of morality consists, and which are the proper means for us to obtain true felicity, the end of all moral actions.

*Geography*, teaches to describe the whole globe of the earth, and all its parts. It is usually divided into general and particular. General, or universal geography, considers the whole entire globe of earth and water, as to its figure, magnitude, motions, land, sea, &c. without any regard to particular countries. Particular, or special geography, considers the constitution of the several countries, or regions, their figure, bounds, parts, &c.; the forests, mountains, mines, rivers, animals, plants, &c.; as also the climate, seasons, weather, heat, cold, distance, from the equinoctial, &c. the inhabitants, arts, communities, cities, commodities, foods, languages, customs, policy, religion, &c.

*Geometry*, originally signifies the art of measuring the earth, or any distances or dimensions on or belonging to it. but it is now used for the science of quantity, extension, or magnitude, abstractedly considered, without any regard to matter. Geometry may be divided into four parts: 1. Planimetry, or the mensuration of plain surfaces. 2. Altimetry, or the taking and measuring of heights, whether accessible or inaccessible. 3. Longemetry, or the art of taking the distances of things afar off, as steeples, houses, trees, &c. 4. Stereometry, or the art of measuring solid bodies.

*Grammar*, is the art of speaking or writing properly, or of expressing the relation of things in construction, with due accent in speaking, and orthography in writing, according to the custom of those whose language we learn.

*Heraldry*, is the art of armoury, or blazoning. It consists in the knowledge of what relates to royal solemnities, cavalcades, and ceremonies at coronations, interviews of kings, instalments, creation of peers, funerals, marriages, &c. and also in giving the proper coat-armour to all persons, regulating their right of precedence in point of honour, and restraining them from bearing coat-armour that have not a just claim thereto, &c. The herald's college is a corporation established by Richard III. consisting of kings at arms, heralds, and pursuivants, who are employed to denounce war, proclaim peace, &c.

*Husbandry*, is the art of tilling or cultivating the earth, in order to render it fertile, and to assist nature in bringing to greater perfection the products thereof.

*Hydraulics*, the art of making all sorts of engines, to carry or raise water, or which are moved by water, and serve for other uses.

*Hydrography*, is that part of geography which considers the sea, and teaches the art of making sea-charts, measuring and describing the sea, accounting for its tides, counter-tides, currents, bays, soundings, gulfs; also its sands, shallows, shelves, rocks, promontories, distances from port to port, with whatsoever is remarkable either out at sea, or near the coast.

*Hydrostatics*, is the doctrine of gravitation in fluids, or that part of mechanics that considers the weight or gravity of fluid bodies, especially water, and also of solid bodies immersed therein.

*Law*, applied to the several policies and states of people, is the maxims and rules they have agreed upon, or re-

ceived from their magistrates, in order to live in peace and mutual society ; or it is a command or precept coming from some superior authority, which an inferior is obliged to obey. Aristotle defines it to be a declaration determined by the common council of a city, showing in what manner things are to be done ; but Chambers, in his dictionary, thinks this is not so properly a law as a covenant.

*Logic*, is the art of conducting the understanding in the knowledge of things, and the discovery of truth. It may be divided into four parts, apprehension, judgment, discourse, and method ; as in order to think aright it is necessary to apprehend, judge, discourse, and methodize rightly. My Lord Bacon divides logic into four branches, according to the end proposed in each ; for a man reasons either to find what he seeks, or to judge of what he finds, or to retain what he judges of, or to teach what he retains ; and from hence arise so many arts of reasoning, viz. the art of inquisition or invention, the art of examining or judgment, the art of preserving or of memory, and the art of elocution or delivering.

*Mathematics*, is the science of quantity, and comprehends whatever it capable of being numbered or measured. It may be divided into speculative, which rests in the bare contemplation of the properties of things ; and practical, which applies the knowledge of those properties to some uses in life, as in astronomy, architecture, geography, mechanics, music, optica, perspective, &c.

*Mechanics*, is a mixed mathematical science, which considers the nature and laws of motion and moving powers, with the effects thereof in machines, &c.

*Metaphysics*, may be called the science of natural theology ; it considers being in general, abstracted from all matter, viz. the essence of it, which seems to have a real being, though it does not exist, as a rose in the depth of winter.

It is so sublime, or rather so abstruse a science, that there is a great difference among authors about its nature and ideas.

*Music* is the science of sound, or the art of disposing and conducting sounds, of proportioning them among themselves, and separating them by just intervals in such a manner, as to produce harmony and melody.

*Navigation* is the art of sailing or conducting a ship or vessel from one place to another, the shortest and most commodious way. It likewise comprehends the art of building and loading of ships.

*Optics* is a mixed mathematical science, which explains the manner wherein vision is performed in the eye,—treats of sight in general; gives the reasons of the several modifications or alterations which the rays of light undergo in the eye,—and shows why objects at different distances, and, in different situations, appear greater, smaller, more distinct, more confused, nearer, or more remote.

*Painting* is the art of representing natural bodies, and giving them the appearance of life. It may be divided into four parts, invention, design, disposition, and colouring.

*Perspective* is that part of the mathematics which gives rules for the representing of objects on a plain superficies, after the same manner as they would appear to our sight, if seen through that plain, it being supposed as transparent as glass.

*Poetry* is the art of inventing and composing fables, stories, allegories, &c. in verse. It is related to painting as it describes the passions and manners of men; and to music, as its style consists of numbers and harmony.

*Philosophy* is the knowledge or study of nature and morality, founded on reason and experience. Philosophy owes its name to the modesty of Pythagoras, who refused the title of wise given to his predecessors, and contented

himself with the appellation of a friend, or lover of wisdom.

*Physic*, or *Medicine*, is the art of healing diseases. According to Boerhaave, it consists in the knowledge of those things by whose application life is either preserved healthy and sound; or, when disordered, again restored to its health and vigour.

*Physiognomy* is the art of knowing, or rather guessing, the humour, temper, or disposition of a person, by the lines and characters of his face.

*Rhetoric* is the art of speaking in the most elegant and persuasive manner; or, as my Lord Bacon defines it, the art of applying and addressing the dictates of reason to the fancy, and of recommending them there so as to attack the will and desires.

*Sculpture* is the art of cutting or carving wood, stone, marble, &c. and of forming various figures and representations therein, particularly of men, beasts, birds, &c.

*Theology*, or *Divinity*, is that science which instructs us in the knowledge of God and divine things. It is generally divided into five parts. 1. Natural theology, is the knowledge we have of God from his works by the light of nature and reason. 2. Supernatural theology, is that which we learn from revelation. 3. Positive theology, is the knowledge of the Holy Scriptures, and of the signification thereof, conformably to the opinions of the fathers and councils, without the assistance of any argumentation. 4. Moral theology, is that which teaches the divine laws relating to our manners and actions. 5. Scholastic theology, is that which proceeds by reasoning, and taking certain established principles of faith for granted, from thence deduces abundance of strange things, and has made a fine piece of work of it indeed. The ancients had a three-fold theology. the first, fabulous, which flourished among the

poets, and was chiefly employed in the genealogies of the gods, &c.; the second political, which was embraced by the politicians, priests, and people, as most suitable and expedient to the safety, quiet, and prosperity of the state; the third natural, chiefly cultivated by the philosopher, as most agreeable to nature and reason. This last acknowledged only one Supreme God.

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*J McGowan and Son, Great Windmill Street.*





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